USER'S HANDBOOK

COSPAS-SARSAT
ADT 406 C/S ID ENCODER
(STB-06 Encoder)

Issued by

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1. INTRODUCTION

This document describes the ADT 406 C/S ID ENCODER tool.

The ADT 406 C/S ID ENCODER require the use of a computer that is supplied by the customer, with one RS 232 available serial link. The operating system can be either WINDOWS 98, 98SE, 2000, XP or NT.

2. GENERAL

A. Purpose of the ADT 406 C/S ID ENCODER

It is used for:

- ELT Cospas-Sarsat Identification management.

It contains everything required for programming an ELT's distress beacon from the ADT 406 range i.e. ADT 406 AF/AP, ADT 406 AP & ADT 406 S models.

B. General characteristics

The P/N of the ADT 406 C/S ID ENCODER is 03N60662.

It is composed of:

- Programming Cable P/N 02N65746 for ELT model ADT 406 (x):,
- CodADT tool P/N 05N62132 for coding the Activation/Identification module of the model ADT 406 S,
- Software on floppy disk and CD ROM (recovery),
- This user's handbook P/N 03E67040.

Note : Recovery software (ELTA) on CD ROM and floppy disk are supplied for first installation and recovery in case of computer software damage or installation on new customer computer.

C. CodADT tool

The CodADT tool is required for coding ADT406 **S** ELT because this model does not have any connector allowing access to the Identification/Activation module.

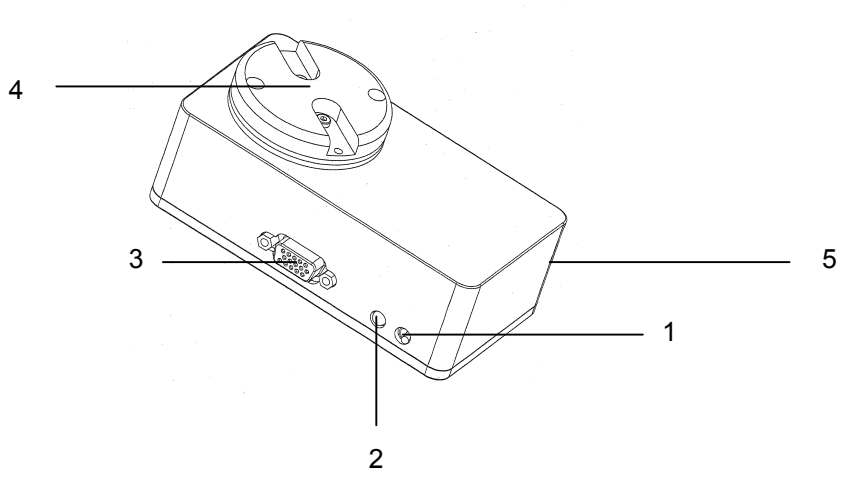
This tool can also be used for "Identification / Activation module" encoding of the ADT406 AF/AP and ADT 406 AP without using the ELT transmitter.

Remove the "Identification / activation module" from the related ELT and plug it onto CodADT tool (Fig. 0 item 4).

Connect the CodADT connector (Fig. 0 item 3) to the computer serial link with the programming cable P/N 02N65746.

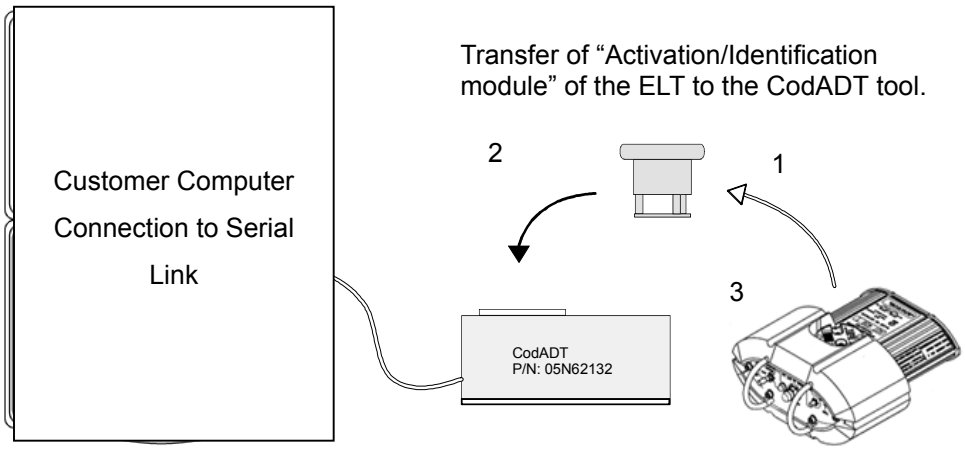
Switch ON and OFF the CodADT toggle switch (Fig. 0 item 1) when required by the encoding software text box "SWITCH ON THE BEACON" or "SWITCH OFF THE BEACON". Indeed there is no

control on the Activation/Identification module. The activation status is displayed on the red LED (Fig. 0 item 2)



CodADT tool Presentation Figure 0

- ON/OFF switch (1),
- Power ON led (2),
- Connector for programming cable 02N65746 connection (3),
- Example of module ready for reading or updating (4),
- Location of the standard 9V battery access for easy replacement (5)



CodADT tool operation with an ADT406S

Figure 0 Bis

D. Improvement from the initial version

The new release **version 1.0.3.0**. incorporates the evolutions made to the STB-06 test bench software:

- Better display of the characteristics of the ELT model under test
- Auto save of the parameters acquired from the ELT
- Complete management of the new ADT 406 S ELT model
- New definition of the “field 7 Power” to low (replace 20 dBm) and high (replace 23 dBm) for ADT 406 AF/AP, high (replace 21 dBm) for ADT 406 AP & ADT 406 S
- Introduction of the Cospas-Sarsat type approval number 153 for the ADT 406 S
- Display of the P/N and Revision index on every screen when this information is available from the ELT (uploaded from the ELT transmitter)

3. OPERATION

A. Putting into service

Use the P/N 02N65746 cable connected to the ELT “Remote Control” connector (Sub D 15 pins) and to computer RS 232 serial link (Sub D 9 pins marked “ELT/COMPUTER”) for the ELT model ADT 406 AF/AP and ADT 406 AP.

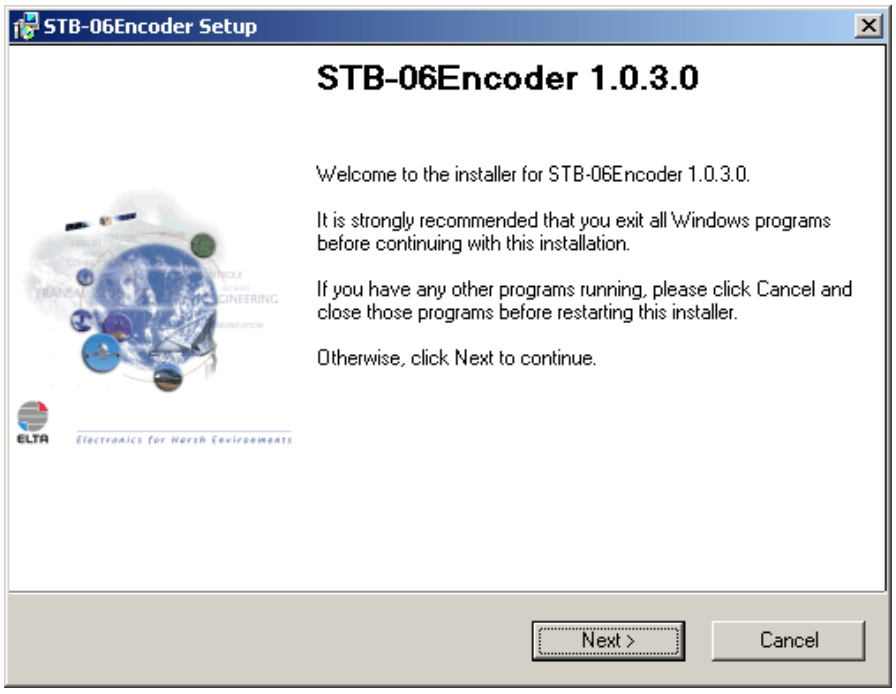
Use the P/N 02N65746 cable connected to the CodADT tool (Sub D 15 pins) and to computer RS 232 serial link (Sub D 9 pins marked “ELT/COMPUTER”) for the ELT model ADT 406 S.

B. Software installation (ADT 406 C/S ID ENCODER , first installation or recovery)

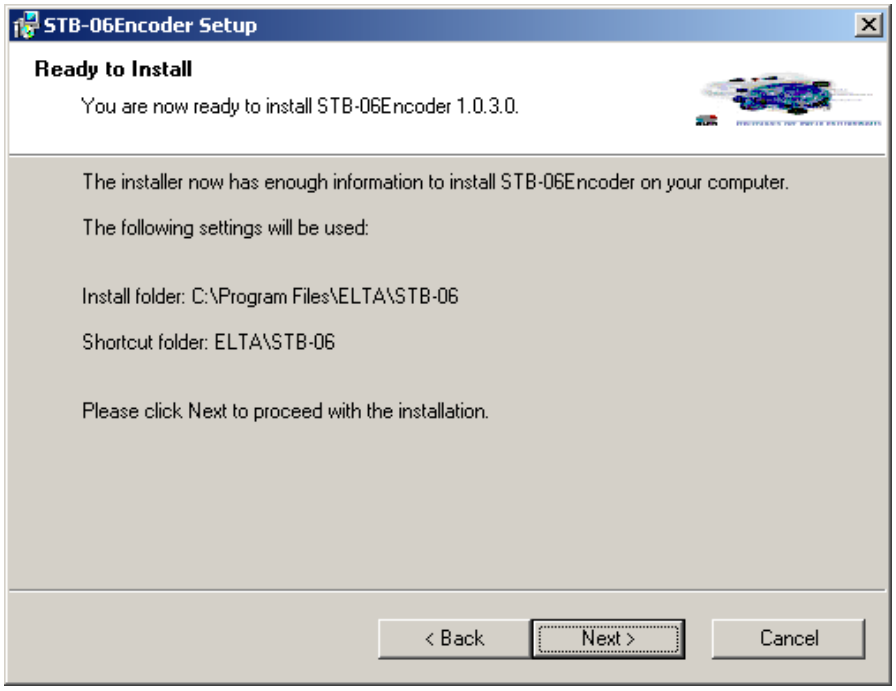
The software can be used with WINDOWS 98, 98 SE, 2000, XP or NT.

- insert the first floppy disk in the drive, or use the CDROM if a drive is available.
- Normally the installation software is running automatically (auto run), if not open the floppy disk or the CDROM drive,
- execute the SETUP file,
- follow the indicated instructions,

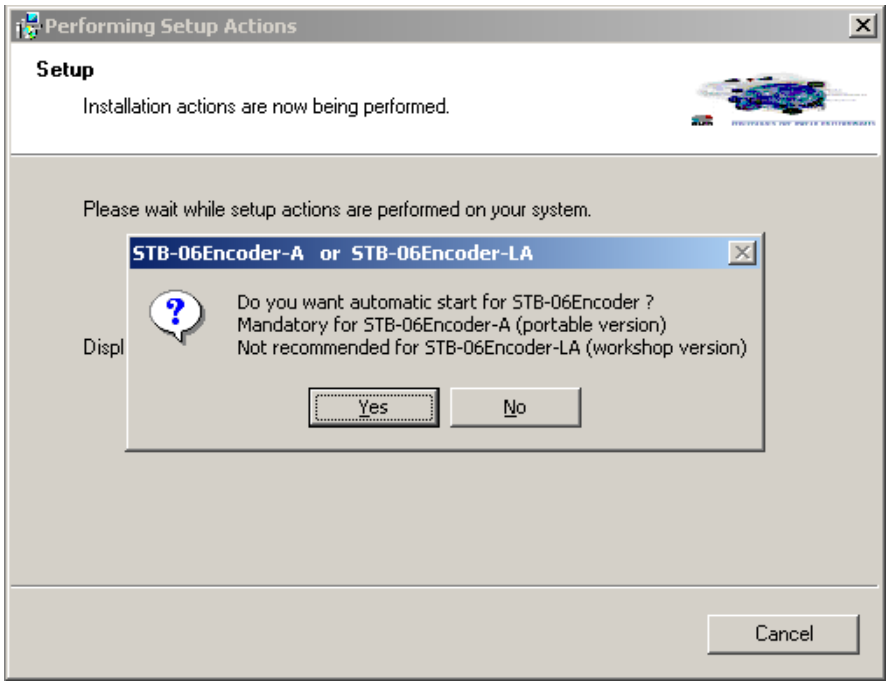
Four main screens (Ref. Fig 1.1 to 1.4) will appears in sequence:


STB-06Encoder Setup
STB-06Encoder 1.0.3.0
Welcome to the installer for STB-06Encoder 1.0.3.0.
It is strongly recommended that you exit all Windows programs before continuing with this installation.
If you have any other programs running, please click Cancel and close those programs before restarting this installer.
Otherwise, click Next to continue.
Next >
Cancel

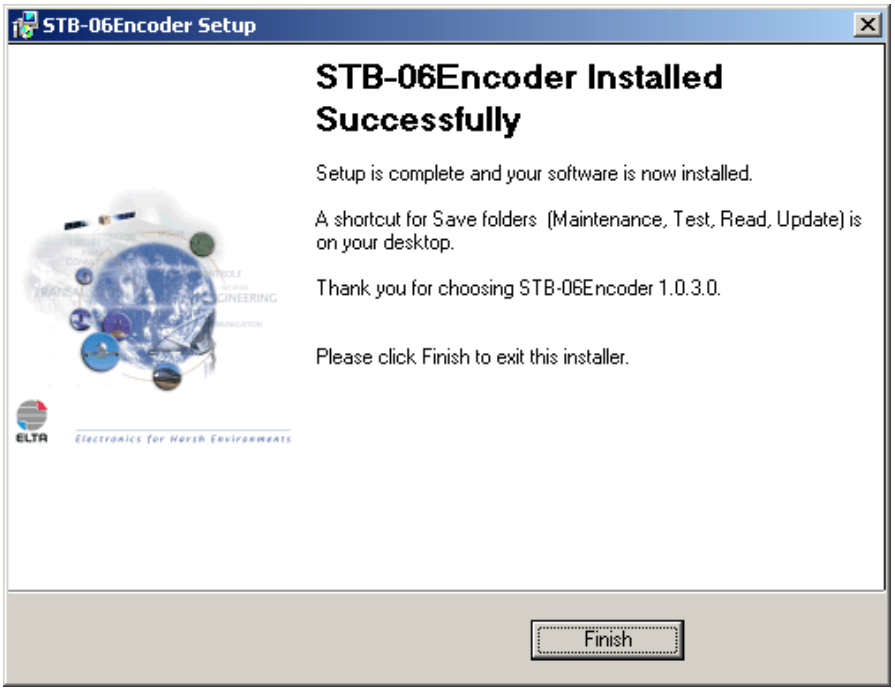
Software Installation Screen Figure 1.1


STB-06Encoder Setup
Ready to Install
You are now ready to install STB-06Encoder 1.0.3.0.
The installer now has enough information to install STB-06Encoder on your computer.
The following settings will be used:
Install folder: C:\Program Files\ELTA\STB-06
Shortcut folder: ELTA\STB-06
Please click Next to proceed with the installation.
< Back
Next >
Cancel

Software Installation Screen Figure 1.2


Performing Setup Actions
Setup
Installation actions are now being performed.
Please wait while setup actions are performed on your system.
STB-06Encoder-A or STB-06Encoder-LA
Do you want automatic start for STB-06Encoder ?
Mandatory for STB-06Encoder-A (portable version)
Not recommended for STB-06Encoder-LA (workshop version)
Yes
No
Cancel

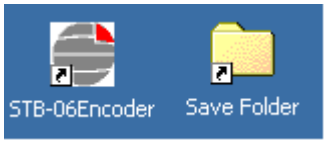
Software Installation Screen Figure 1.3


STB-06Encoder Setup
STB-06Encoder Installed Successfully
Setup is complete and your software is now installed.
A shortcut for Save folders (Maintenance, Test, Read, Update) is on your desktop.
Thank you for choosing STB-06Encoder 1.0.3.0.
Please click Finish to exit this installer.
Finish

Software Installation Screen Figure 1.4

Click on “FINISH” to complete the software installation.

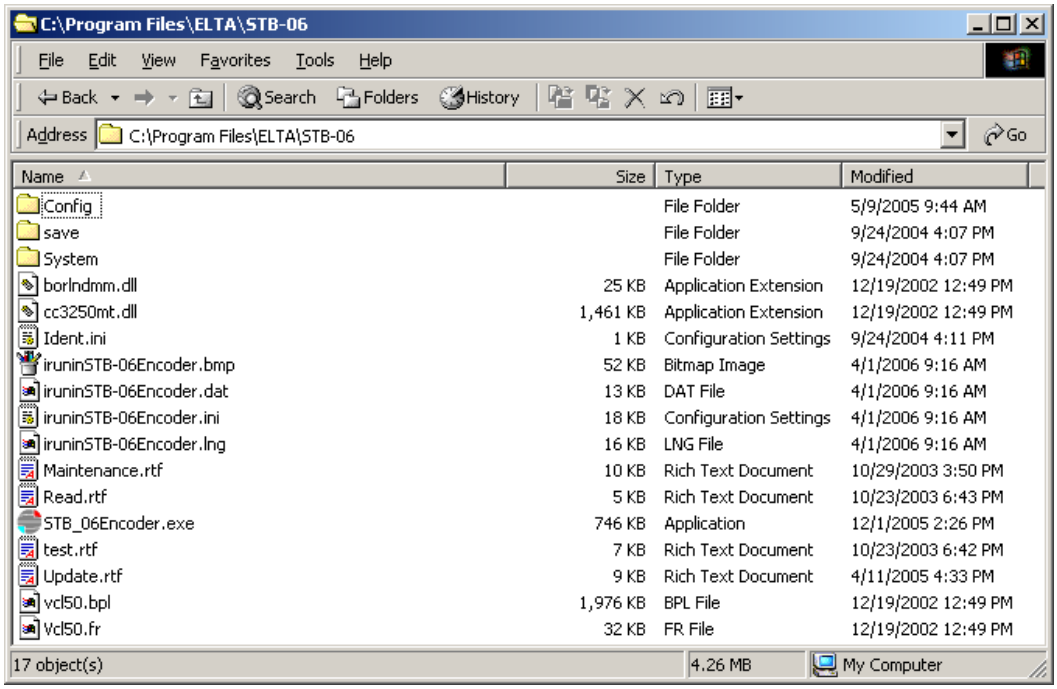
Short cuts are placed on the screen



The first one launch the software.

The second access the save folders where all the test reports are stored.

The software is installed in a fixed directory located under “C:\Program Files\ELTA\STB-06”.


C:\Program Files\ELTA\STB-06
File Edit View Favorites Tools Help
Back Search Folders History
Address C:\Program Files\ELTA\STB-06
Go
Name Size Type Modified
Config File Folder 5/9/2005 9:44 AM
save File Folder 9/24/2004 4:07 PM
System File Folder 9/24/2004 4:07 PM
borlndmm.dll 25 KB Application Extension 12/19/2002 12:49 PM
cc3250mt.dll 1,461 KB Application Extension 12/19/2002 12:49 PM
Ident.ini 1 KB Configuration Settings 9/24/2004 4:11 PM
iruninSTB-06Encoder.bmp 52 KB Bitmap Image 4/1/2006 9:16 AM
iruninSTB-06Encoder.dat 13 KB DAT File 4/1/2006 9:16 AM
iruninSTB-06Encoder.ini 18 KB Configuration Settings 4/1/2006 9:16 AM
iruninSTB-06Encoder.lng 16 KB LNG File 4/1/2006 9:16 AM
Maintenance.rtf 10 KB Rich Text Document 10/29/2003 3:50 PM
Read.rtf 5 KB Rich Text Document 10/23/2003 6:43 PM
STB_06Encoder.exe 746 KB Application 12/1/2005 2:26 PM
test.rtf 7 KB Rich Text Document 10/23/2003 6:42 PM
Update.rtf 9 KB Rich Text Document 4/11/2005 4:33 PM
vcl50.bpl 1,976 KB BPL File 12/19/2002 12:49 PM
Vcl50.fr 32 KB FR File 12/19/2002 12:49 PM
17 object(s)
4.26 MB
My Computer

“**Ident.ini**” file content the “organism” code assigned by ELTA.

“**Config**” directory content the country codes, parameters & parameters files.

“**System**” directory content the serial link assignation and Parts Number definition files.

“**Save**” directory content Maintenance, Read, Test & update directories that store the test reports.

Shortcut “**Save Folder**” points to this directory.

Note: By default the serial link assigned to this software operation is “COM 1”. If this COM is not available or may be used by an other application it may be manually changed. Replace “Portnum=1” by the relevant port in “C:\Program Files\ELTA\STB-06\serie.ini” file”.

Note: After the first installation we recommend the operator to update the country code file by the latest release available. Contact ELTA at www.elta.fr for more information.

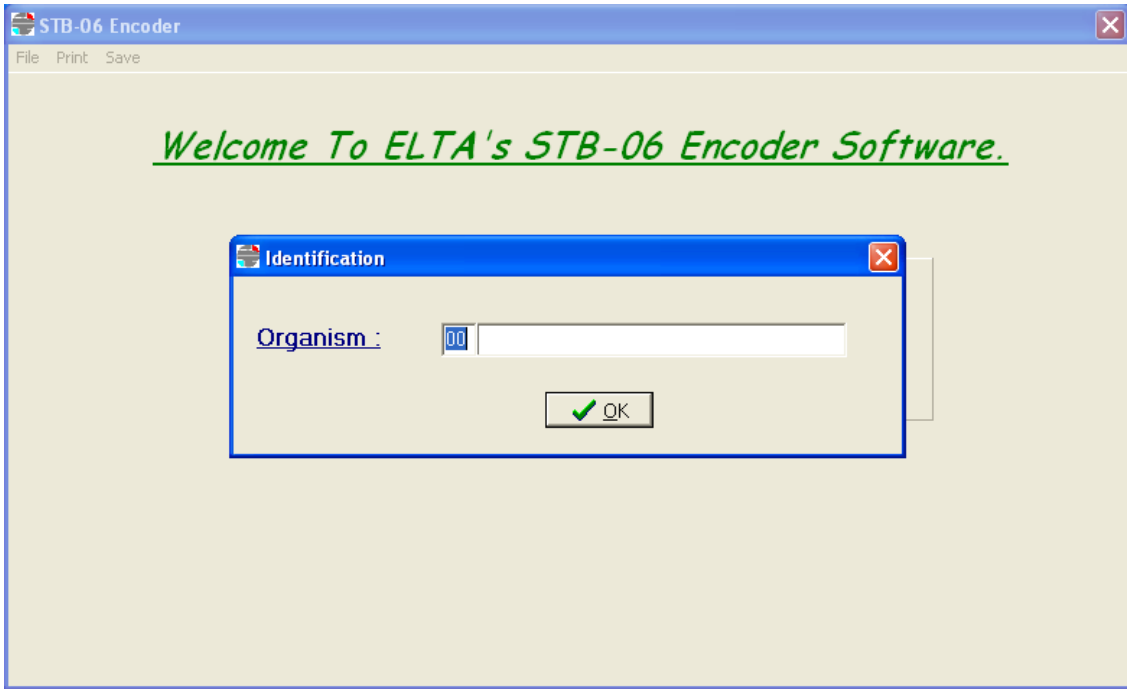
At the date of creation of this user handbook the latest updated country code file is presented in the recovery CD ROM . It is the "V.1.3.1 (3/Apr/06) release.

Copy the text file "CountryCode.txt" from the CD ROM under "C:\Program Files\ELTA\STB-06\Config". This copy will erase the previous version dated 31/08/04

- execute the ADT 406 C/S ID ENCODER program (double click on short cut),
- after this "cold start" enter the organization code and the user organization name assigned by ELTA.

These information are indicated on the front page of this user handbook (label stuck) .

In case of input error, you must delete the file "Ident.ini" under "C:\Program Files\ELTA\STB-06" directory, the next access to the software will ask you again the required information.



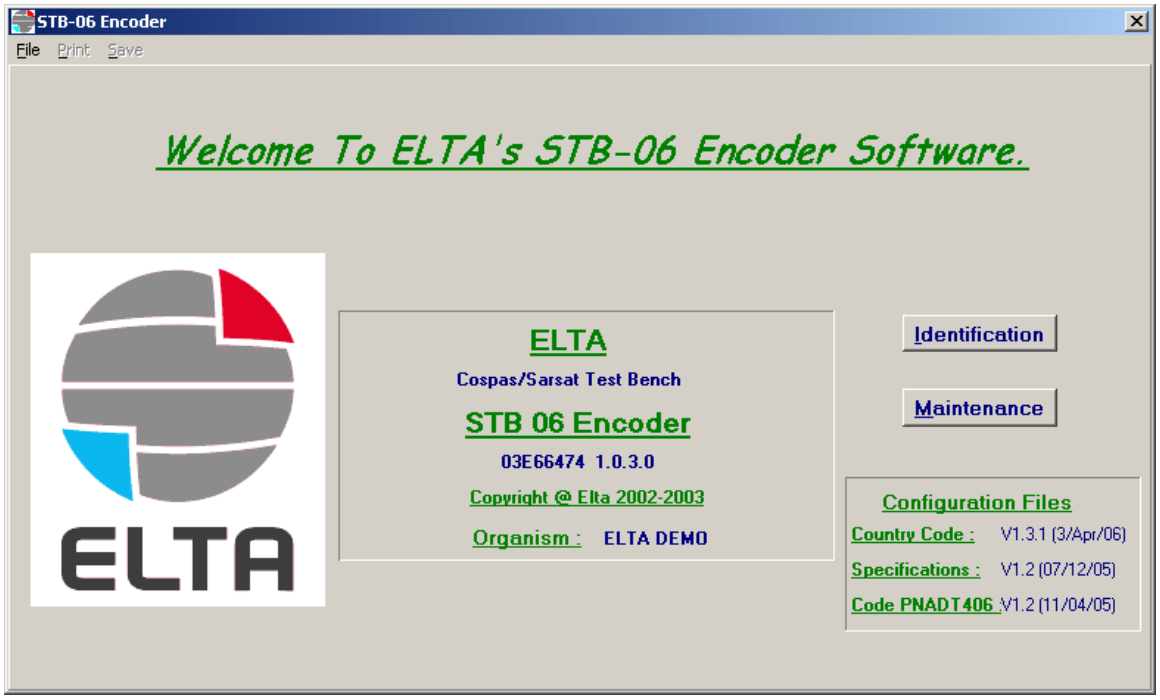
Organization Code & Name initialization

Figure 2

The following screen (Ref. Fig. 3) is displayed offering the Operator two possibilities. It also displays the software reference, P/N and Release and the different configurations files release present on the computer:

- Country code (text file with all the country code available to date),
- Specifications (not used for the Cospas-Sarsat Identification management),
- Code PNADT406 (text file with all the P/N available to date).

Note: these configuration files can be updated by the user. The new files cancel and replace the existing one. For more flexibility these configuration files are now out of the operational software release and do not impact it upon evolution.



ADT 406 C/S ID ENCODER Main Menu

Figure 3

The two main functions are:

- **Identification**: deals with the COSPAS-SARSAT ELT identification (ELT encoding),
- **Maintenance**: deals with the ELT maintenance tasks (Not relevant for ADT 406 S ELT model).

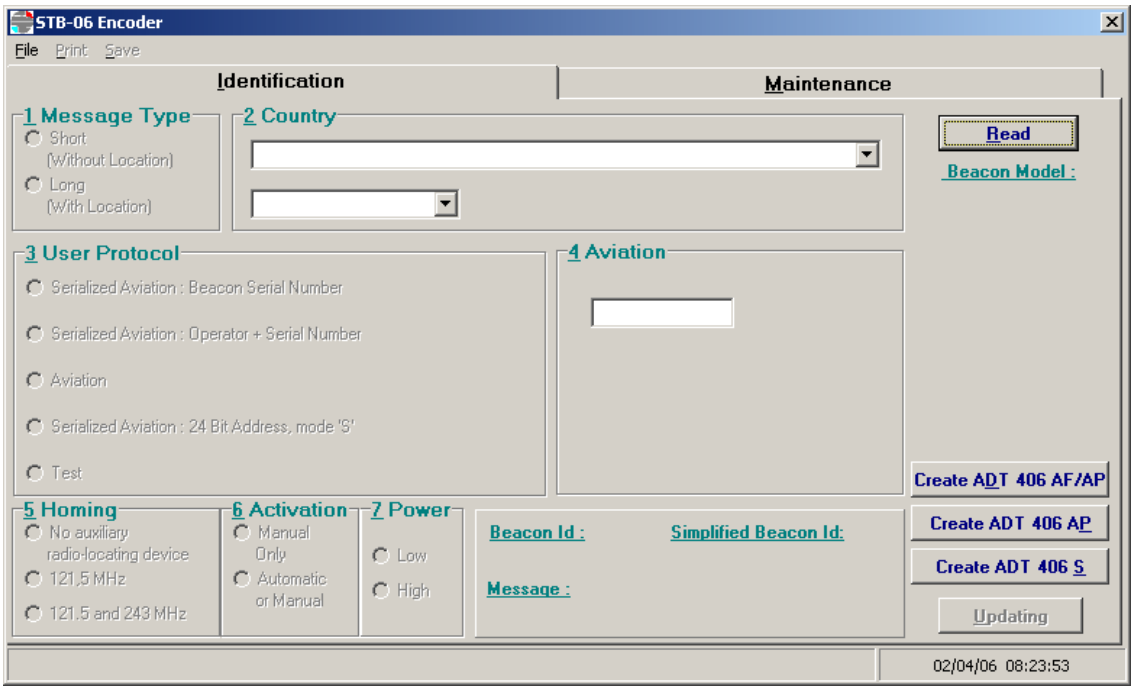
Access to the functions can be made by:

- Clicking on the required button,
- Entering the underlined letter of the button (shortcut),
- Using the “TAB” key on the keyboard.

Functional operation

(a)Identification

Click **Identification** or type "**I**" in the main menu screen. The following empty identification screen (Ref. Fig. 4) is then displayed.



Empty Identification Screen

Figure 4

This screen deals with the COSPAS-SARSAT Identification selectable parameters.

It is used to provide the following information :

- the message type : long (with) or short (without) location capability (field 1),
- the country name and code with the associated code (field 2) as per ICAO or IMO

Note: For C/S ELT the country code selected must be the Final Operator one not necessarily the one of the owner of the ELT (case of the leasing companies). The goal of this country code is to find as soon as possible information on the actual A/C operations.

- the user protocol (field 3),
- the information corresponding to the protocol selected (field 4),
- the radio location type (field 5),
- the activation type (field 6),
- the homing signals power selection (field 7),
- the last box displays the official 15 Hex COSPAS-SARSAT Identification as “Beacon Id” and the simplified identification as “Simplified Beacon Id” for fast access. See figure 16 for detail.

Note: Decoding of the 15 hex C/S identification can be performed on the C/S internet site at the address www.cospas-sarsat.org/Mainpages/indexEnglish.html then select “Beacons” and “406 MHz Beacon Decode”

IMPORTANT: AFTER THE ENCODING PROCESS THE FINAL OPERATOR MUST REGISTER HIS ELT WITH THE RELEVANT LOCAL ORGANISM OR WITHIN THE COSPAS-SARSAT INTERNATIONAL REGISTRATION DATA BASE (IRDB). THIS COSPAS-SARSAT IRDB CAN BE FOUND AT **WWW.COSPAS-ARSAT.ORG/MAINPAGES/INDEXENGLISH.HTML** THEN SELECT “BEACONS” AND “REGISTRATION”.

Cospas-Sarsat web site is located at **www.cospas-sarsat.org**

Note: Details of the COSPAS-SARSAT (C/S) identification can be found through the C/S internet site at the address www.cospas-sarsat.org/Mainpages/indexEnglish.html then select “Beacons” and “406 MHz Beacon coding guide”. Encoding must be in accordance with each local regulation that may restrict the number of authorized protocol.

Note: Updated country code list can be consulted on the C/S internet site at the address www.cospas-sarsat.org/Mainpages/indexEnglish.html then select “Beacons” and “406 MHz Beacon Decode”, then click “here” for the list of MIDs, country code”.

1 Beacon ID verification.

To perform this task the ELT transmitter (ADT 406 AF/AP or ADT 406 AP) or the CodADT tool with the relevant Activation/Identification module, must be connected to the computer serial link with the relevant programming cable:

- For the ADT406 ELT models ADT 406 AF/AP & ADT 406 AP, use the P/N 02N65746 cable connected to the ELT “Remote Control” connector and the longer side of the cable labeled “PC/COMPUTER” to the computer serial link,
- For the Activation/Identification module of the ELT model ADT 406 S, use the P/N 02N65746 cable connected to the “CodADT tool” connector and the longer side of the cable labeled “PC/COMPUTER” to the computer serial link,

Click **Read**. The screen instructs the Operator to turn ON the ELT.

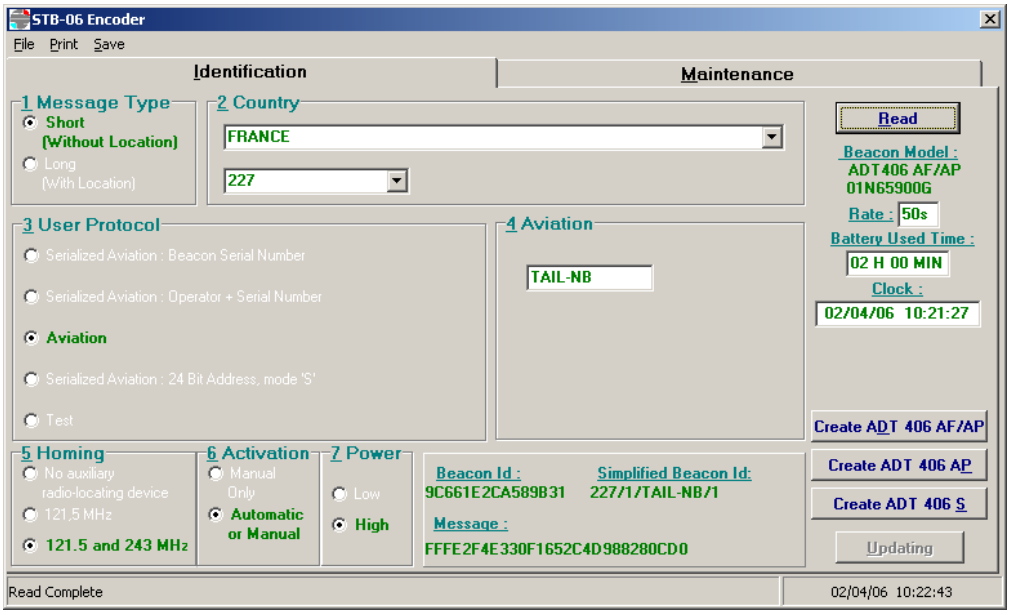
Turn ON the ELT or the CodADT tool.

A bar graph will display the data transfer, then the screen instructs the Operator to turn OFF the ELT or the CodADT tool.

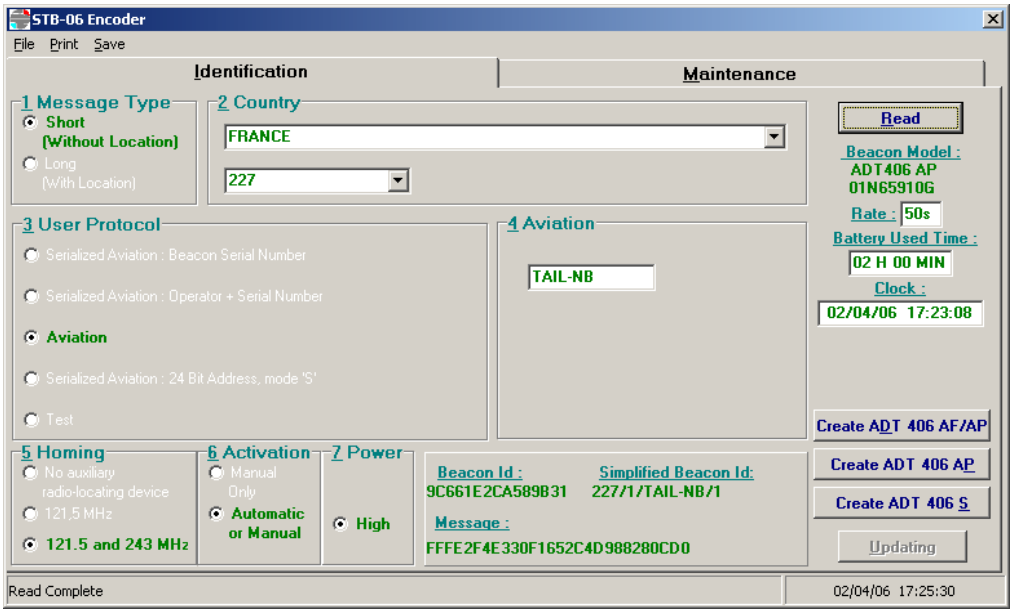
WARNING DO NOT INTERRUPT THE PROCESS. A WRONG INFORMATION UPLOAD OR WRONG ELT STATE MAY OCCUR. ALWAYS CHECK THAT THE ELT TOGGLE SWITCH IS IN OFF POSITION BEFORE RELEASING THE ELT TO SERVICE OR TO STOCK.

Turn OFF the ELT transmitter or the CodADT tool.
After an “Auto save” request (see § (c) Auto Save)

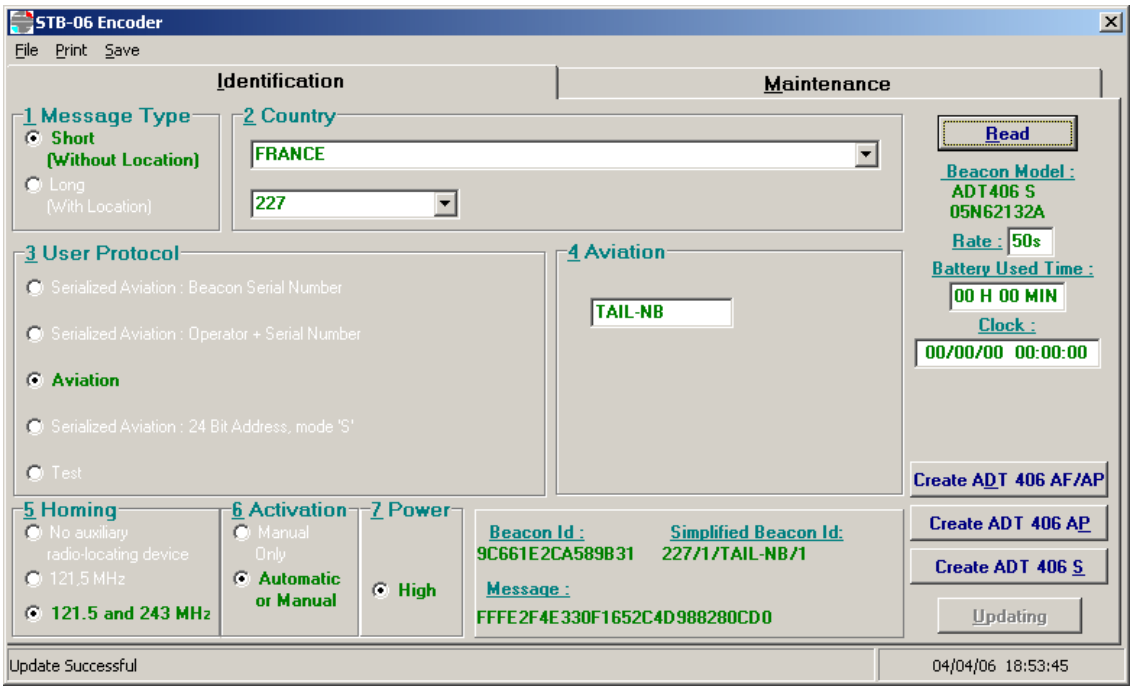
One of the following screen (Ref. Fig. 5 to Fig. 5 Ter) is then displayed depending of the ELT model involved.



Example of Identification Reading Screen (ADT 406 AF/AP) Figure 5



Example of Identification Reading Screen (ADT 406 AP) Figure 5 Bis



Example of Identification Reading Screen (ADT 406 S)

Figure 5 Ter

All the information acquired from the ELT are displayed in **Green**.

The Beacon model, its P/N with the revision index are automatically displayed on the upper right of the screen.

Rate is the delay between two Cospas-Sarsat Burst. It must indicate 50s for an operational ELT. Other value are reserved for test purposes.

Clock display the actual value of the ELT internal real time clock. It is not a UTC indication. This value is not relevant for ELT model ADT 406 S (set to 0).

Battery used time indicates the cumulative transmission duration of the transmitter in ON mode (increased every 15 minutes). This value is not relevant for ELT model ADT 406 S (set to 0).

When the battery used time is over a limit , a warning box appears after an identification **Read**. It recommends to perform a battery servicing on the ELT transmitter.

Note: For the ADT 406S the P/N indicated in the "Beacon model" field is the CodADT tool one because we do not have a direct access to the ELT transmitter for this model.

Limit is adjusted to 5 hours with the ELT models ADT 406 AF/AP and ADT 406 AP.

See following example in Figure 6.

Battery Used Time Warning

Displayed over the existing screen

Figure 6

For closing the warning battery servicing , click **OK**. then Turn OFF the ELT transmitter when required.

Note: Detailed "C/S identification READ" examples for each protocol and ELT type are presented in the ELTA recovery software CD ROM supplied with the ADT 406 C/S ID ENCODER.

2 Beacon ID creation or update

To perform this task the ELT transmitter (ADT 406 AF/AP or ADT 406 AP) or the CodADT tool with the relevant Activation/Identification module, must be connected to the computer serial link with the programming cable:

- For the ADT406 ELT models ADT 406 AF/AP & ADT 406 AP, use the P/N 02N65746 cable connected to the ELT “Remote Control” connector and the longer side of the cable labeled “PC/COMPUTER” to the computer serial link,
- For the Activation/Identification module of the ELT model ADT 406 S, use the P/N 02N65746 cable connected to the “CodADT tool” connector and the longer side of the cable labeled “PC/COMPUTER” to the computer serial link,

For create or update to a new C/S identification for a model ADT 406 AF/AP P/N 01N65900, click on **Create ADT 406 AF/AP.**

For create or update to a new C/S identification for a model ADT 406 AP P/N 01N65910, click on **Create ADT 406 AP.**

For create or update to a new C/S identification for a model ADT 406 S P/N 01N65930, click on **Create ADT 406 S.**

The following screen (Ref. Fig. 7) is displayed.

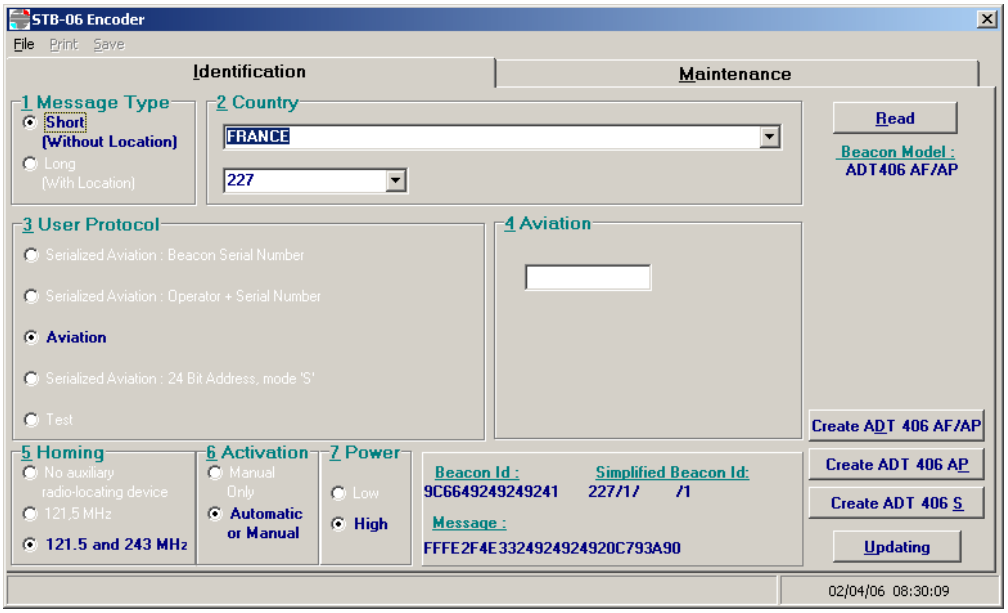
Parameters in Box 1; 2; 3 ;4 ;5 are related to Cospas-Sarsat Identification and modify the Beacon ID content.

Parameter on Box 6 is related to Cospas-Sarsat but it is “for information only” and consequently does not impact in the Beacon ID content (so beacon ID content is not modified by this information).

Parameter “Power” in Box 7 is only operational for ELT model ADT 406 AF/AP. We recommend to keep the default value “High” unless otherwise information.

Note: The field 1 “Message Type” is set to LONG only when the ELT model ADT 406 AF/AP or ADT 406 AP is connected to a Navigation Interface acquiring A/C location information from the A/C data buses. For al other application it must remain set to SHORT.

Note: The ADT 406 S does not have the connection capability to the Navigation Interface. Field 1 must remain be set to SHORT.



New Identification Screen (ADT 406 AF/AP)
Figure 7

Default value for the parameters are displayed in Blue. Alternative or selectable parameters are displayed in White.

Click on each characteristics boxes (1 to 7) and enter the relevant data to build the final Cospas-Sarsat message (C/S Identification). Beacon Id, Simplified Beacon Id and Message fields are updated in real time while the operator enter his selection.

Note: Country code can be entered by typing the name of the country or by typing the N° of the country. See "List of Country codes…" at the end of this document.

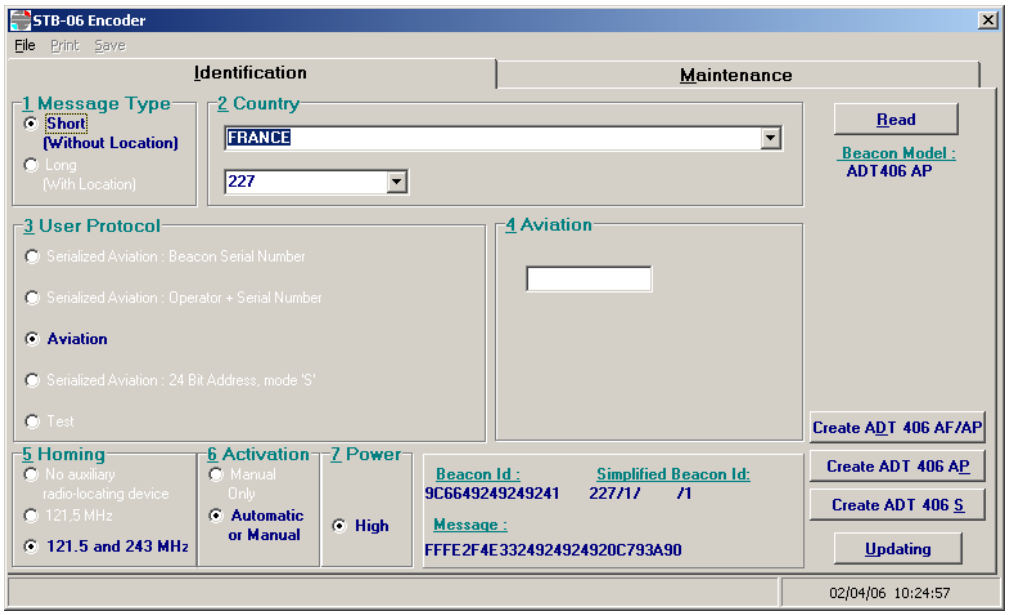
Note: The country code is the one of the ELT final operator unless otherwise information are given by the local Authority.

Note: If the country code entered is not listed in the current "country code" file, UNKNOWN indication will appear in the field 2 but it will not stop the encoding process. The operator must verify the validity of this country code in the Cospas-Sarsat web site at the address www.cospas-sarsat.org/Mainpages/indexEnglish.html , then select "Beacons" and "406 MHz Beacon Decode", then click "here" for the list of MIDs, country code".

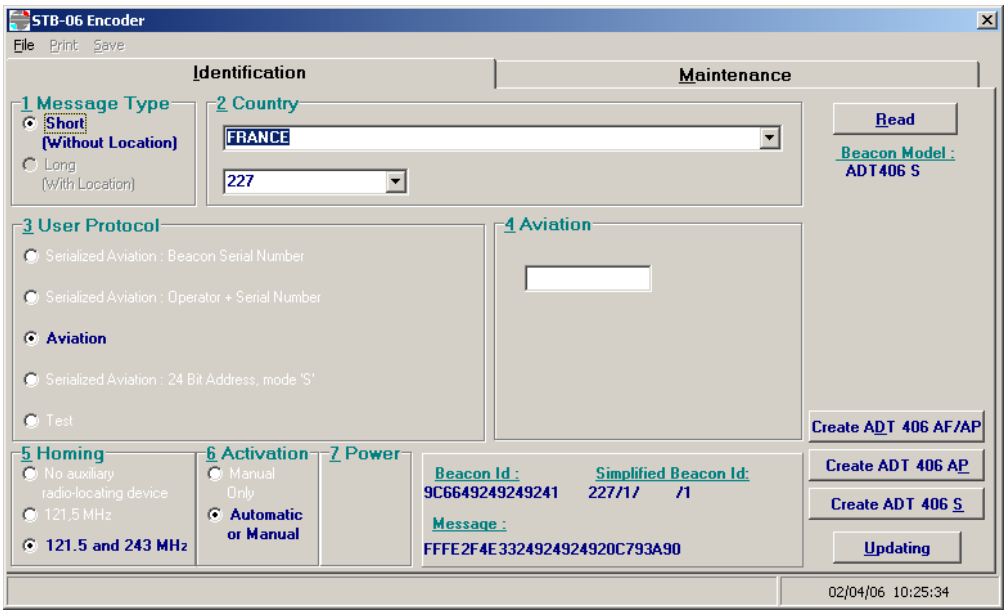
Note: Some countries had been assigned more than one country code. By experience ELTA has selected in his file the selected country code for ELT application.

Note: Last entered fields are stored in order to ease the operator tasks, but field 4 is automatically erased after any new update avoiding an ELT coding unwanted duplication.

The following displays (Ref. Fig.8 & 9) shows the **Create ADT 406 AP** screen and the **Create ADT 406 S** screen.



New Identification Screen (ADT 406 AP) - Figure 8



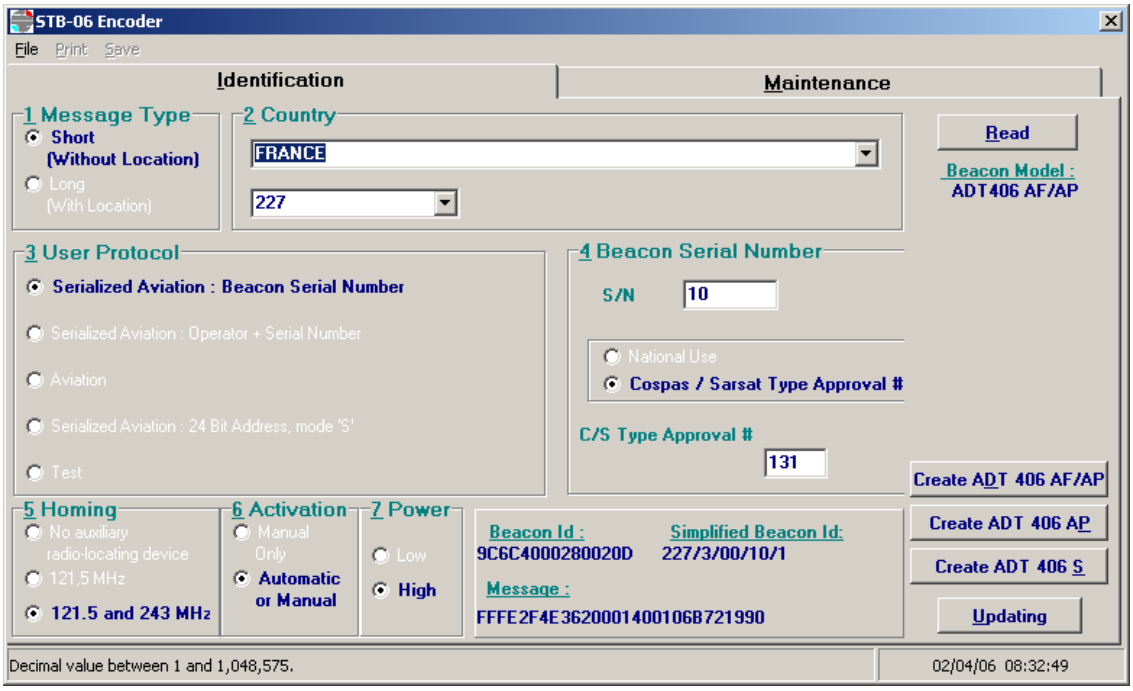
New Identification Screen (ADT 406 S) - Figure 9

Note: For the ELT model ADT 406 S the field 1 “Message Type” must be set to SHORT.

a ADT 406 AF/AP Identification encoding examples

Note: Example given here under are for "Short" message type. Long message example are included in the Recovery CD ROM.

The following screens show the different available user protocols in conformity with the current Cospas-Sarsat specifications (Ref. Fig. 10 to 14):



User Protocol - Serialized Aviation : Beacon Serial Number (ADT 406 AF/AP)

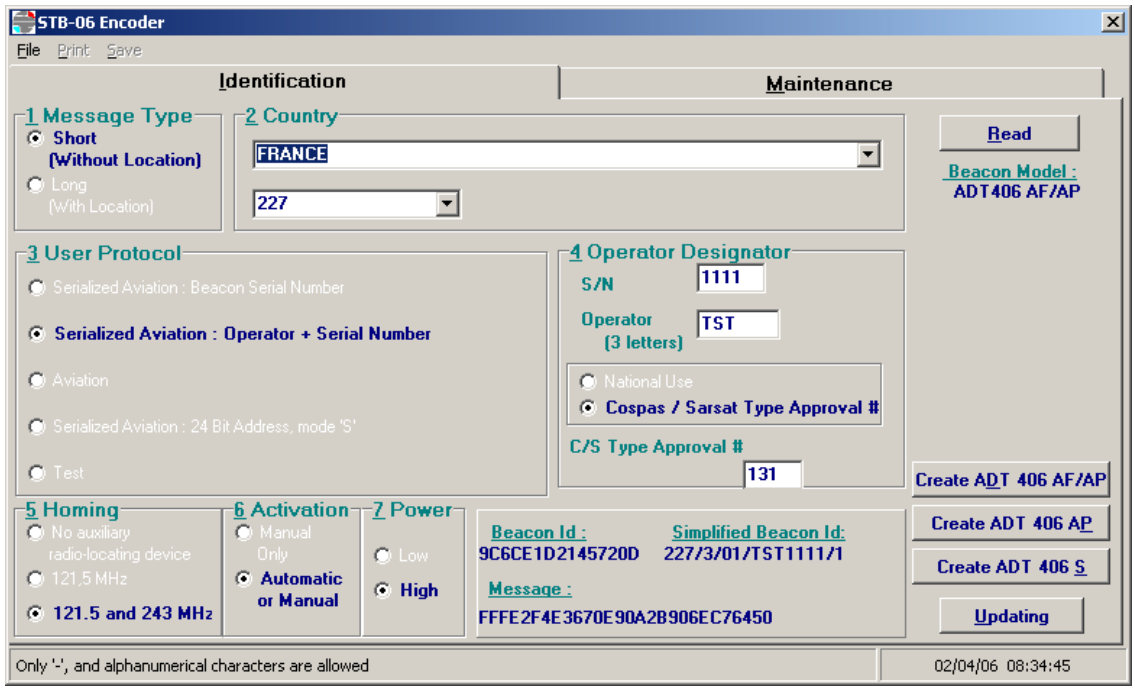
Figure 10

Note: Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: S/N is the ELT serial number or a number given by the local Authority. This number is right justified (0 at left are not significant).

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Serialized Aviation : Operator + Serial Number (ADT 406 AF/AP)

Figure 11

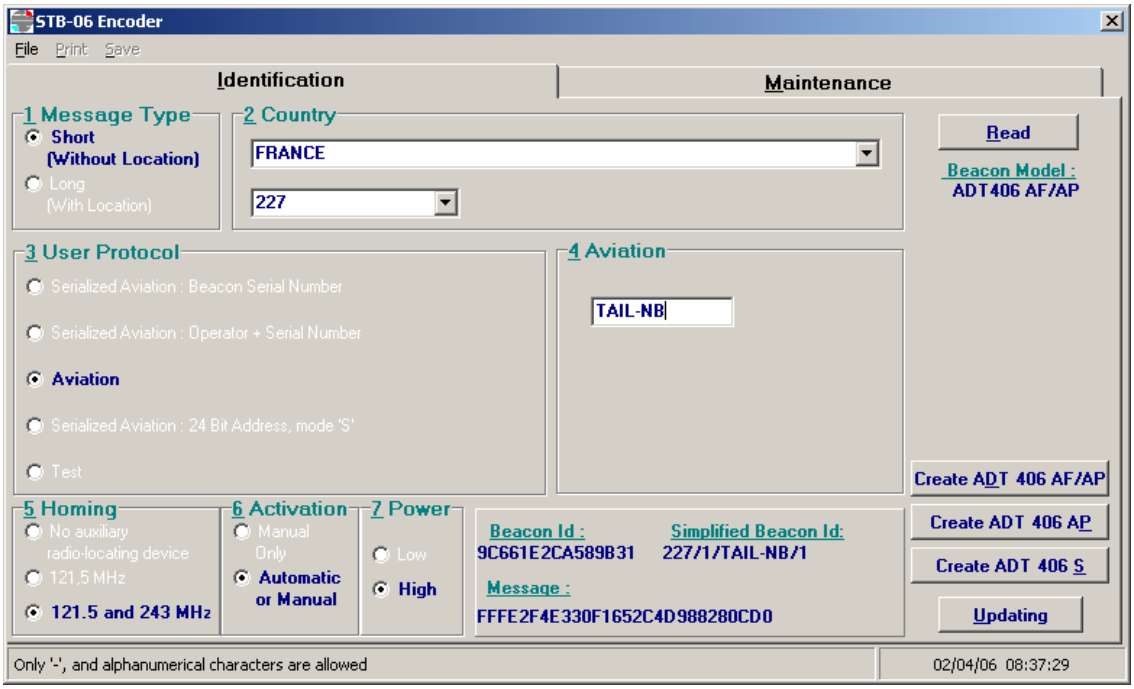
Note: Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: S/N is limited to 4095 and right justified (0 at left are not significant).

Note: Operator are the three letter assigned to any operator by ICAO

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



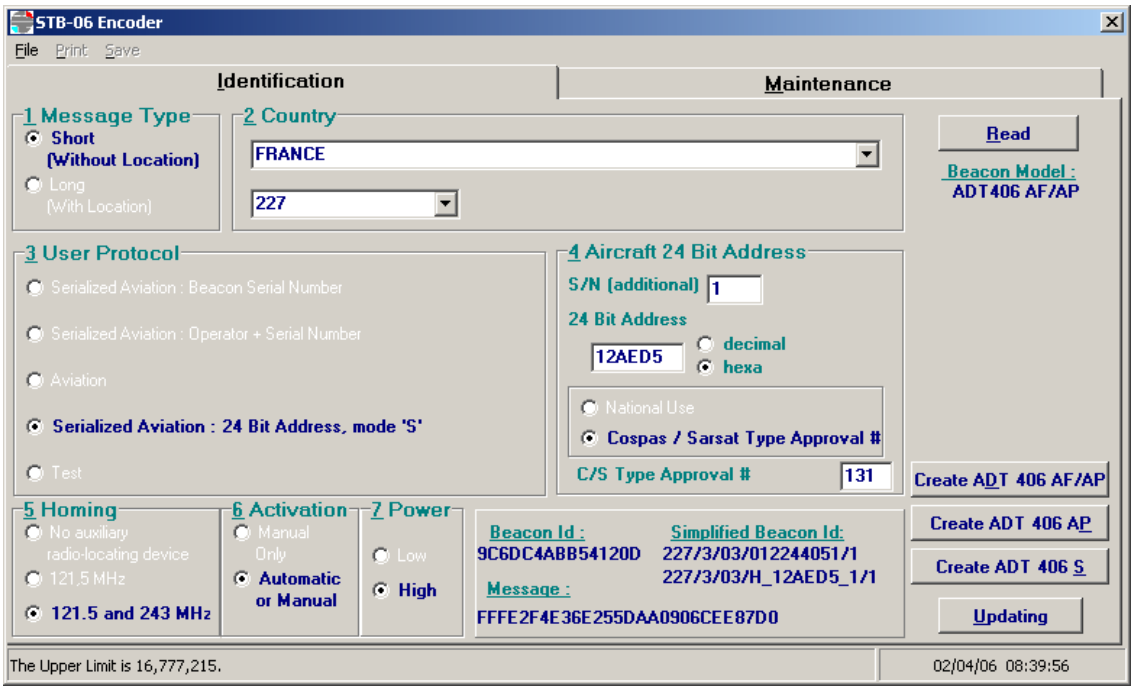
User Protocol – Aviation (ADT 406 AF/AP)

Figure 12

Note: Fields of ITEM 4 shall be filled.

Note: Field 4 Aviation is the A/C registration marking (up to 7 characters). This field is right justified and "Space" are inserted to the left if less than 7 characters exist.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Serialized Aviation : 24 Bit Address, Mode 'S' (ADT 406 AF/AP)

Figure 13

Note: In box 4, the operator shall assign the ELT index on board A/C (0 for the first one, 1…).

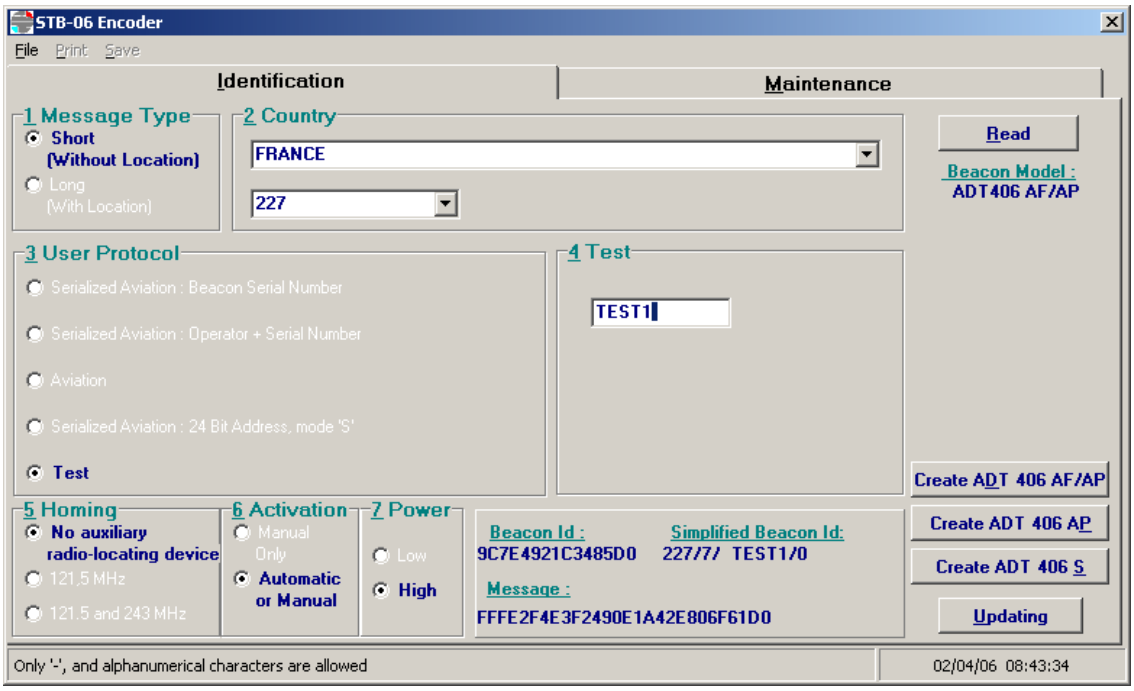
Note: The 24 bit address may be entered either in decimal (conversion from 24 bit binary to decimal) or in HEX (conversion from 24 bit binary to Hex value).

Note: To keep traceability with the previous ELT in service, Simplified Beacon ID is displayed in two notation, decimal (as before, 227/3/03/012244051/1 in the above screen) and in Hex (new capability, 227/3/03/H_12AED5_1/1 in the above screen). The operator will select which one he wants to use on the ELT Identification label.

Note : Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Test (ADT 406 AF/AP)

Figure 14

Note : For the test protocol we recommend that the Homing signals be removed in order to avoid False alert. The Cospas-Sarsat message for test protocol is not processed by the Cospas-Sarsat system. This "TEST" transmission is considered as Non Operational and is discarded by the system. Upon dedicated request the local Cospas-Sarsat Mission Control Center (MCC) can send the ELT location information to the operator.

Note : Field of ITEM 4 shall be filled.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).

Upon completion of the parameters selection, click **Updating** to download the new identification in the ELT.

The screen instructs the Operator to turn ON the ELT.

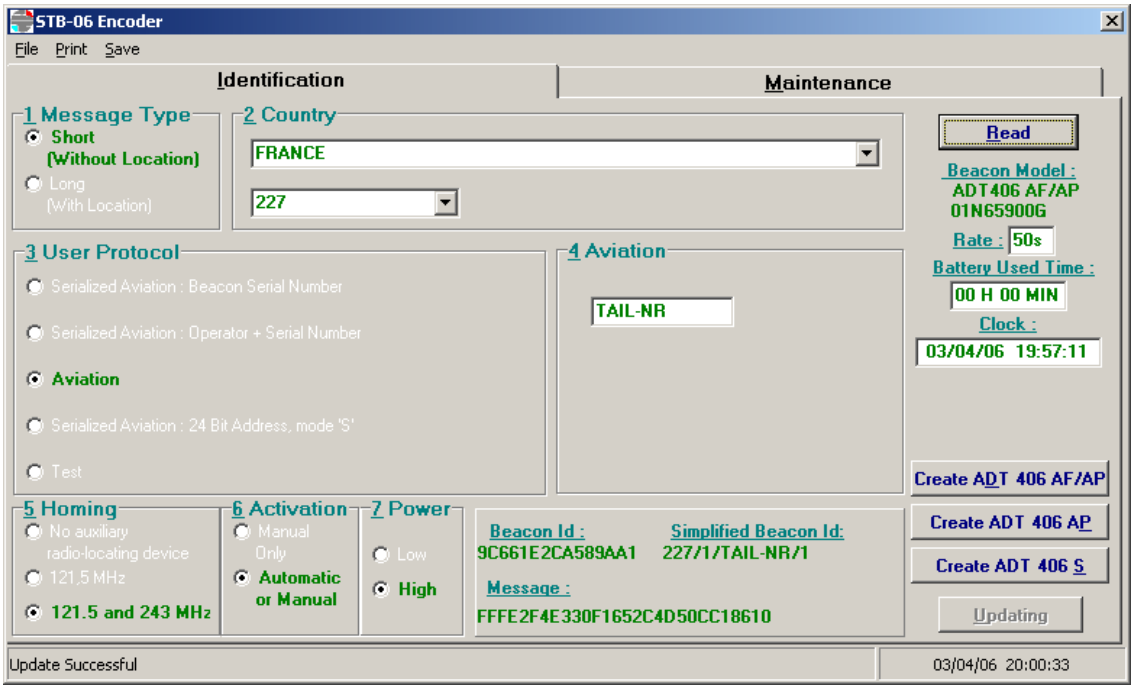
Turn ON the ELT transmitter.

The downloading of the data starts . When the downloading is over the screen instructs the Operator to turn OFF the ELT.

Turn OFF the ELT.

After an “Auto save” request (see § (c) Auto Save)

The following screen (Ref. Fig. 15) is displayed.



Identification Updated Screen (Aviation Example, for ADT 406 AF/AP)

Figure 15

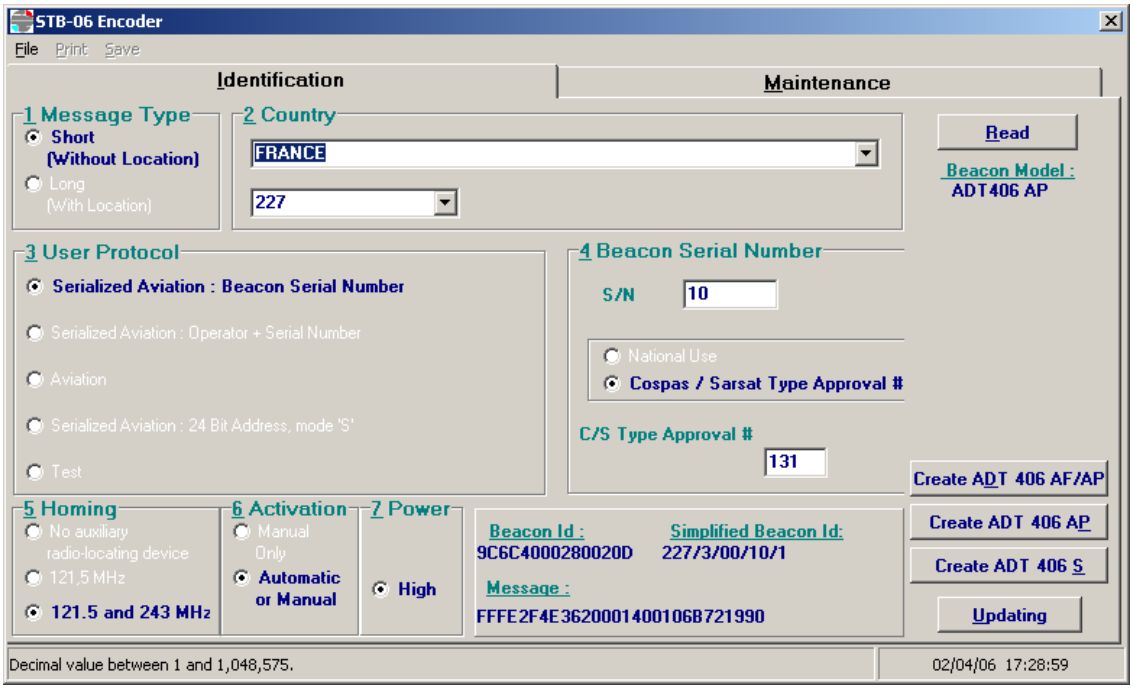
The message "Update Successful" appears in the left down corner of the screen.

Note : Detailed “C/S identification UPDATE” examples for each protocol and ELT type are presented in the ELTA recovery software CD ROM supplied with the ADT 406 C/S ID ENCODER.

b ADT 406 AP Identification encoding examples

Note: Example given here under are for "Short" message type. Long message example are included in the Recovery CD ROM.

The following screens show the different available user protocols in conformity with the current Cospas-Sarsat specifications (Ref. Fig. 10 Bis to 14 Bis):



User Protocol - Serialized Aviation : Beacon Serial Number (ADT 406 AP)

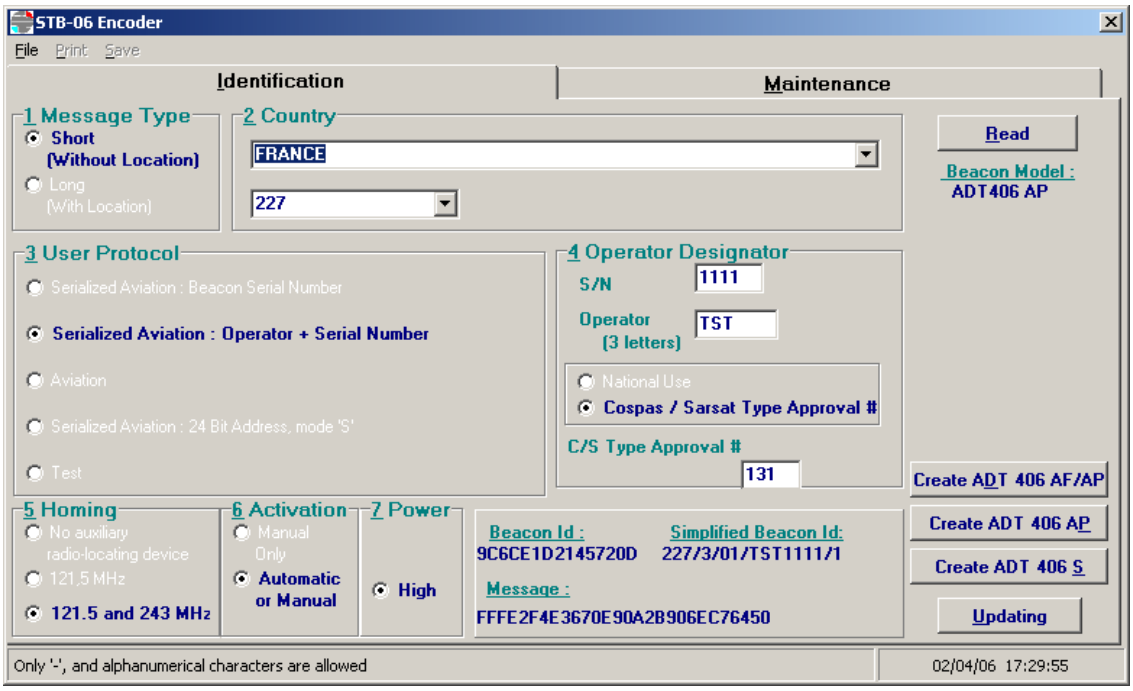
Figure 10 Bis

Note: Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: S/N is the ELT serial number or a number given by the local Authority. This number is right justified (0 at left are not significant).

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Serialized Aviation : Operator + Serial Number (ADT 406 AP)

Figure 11 Bis

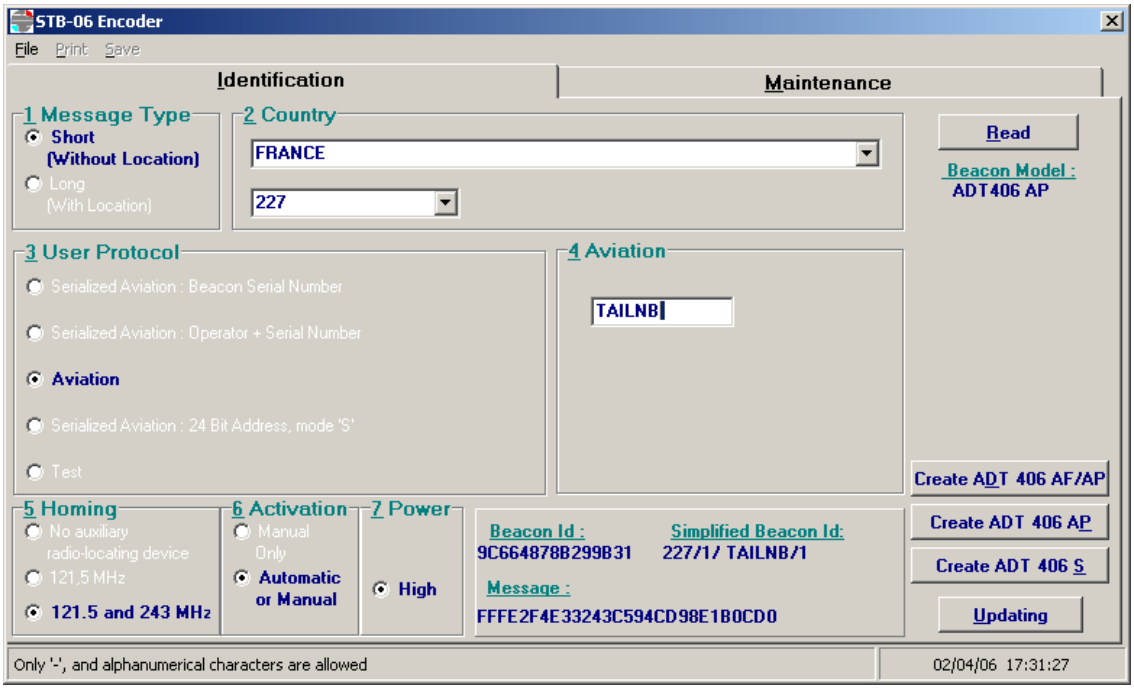
Note: Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: S/N is limited to 4095 and right justified (0 at left are not significant).

Note: Operator are the three letter assigned to any operator by ICAO

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



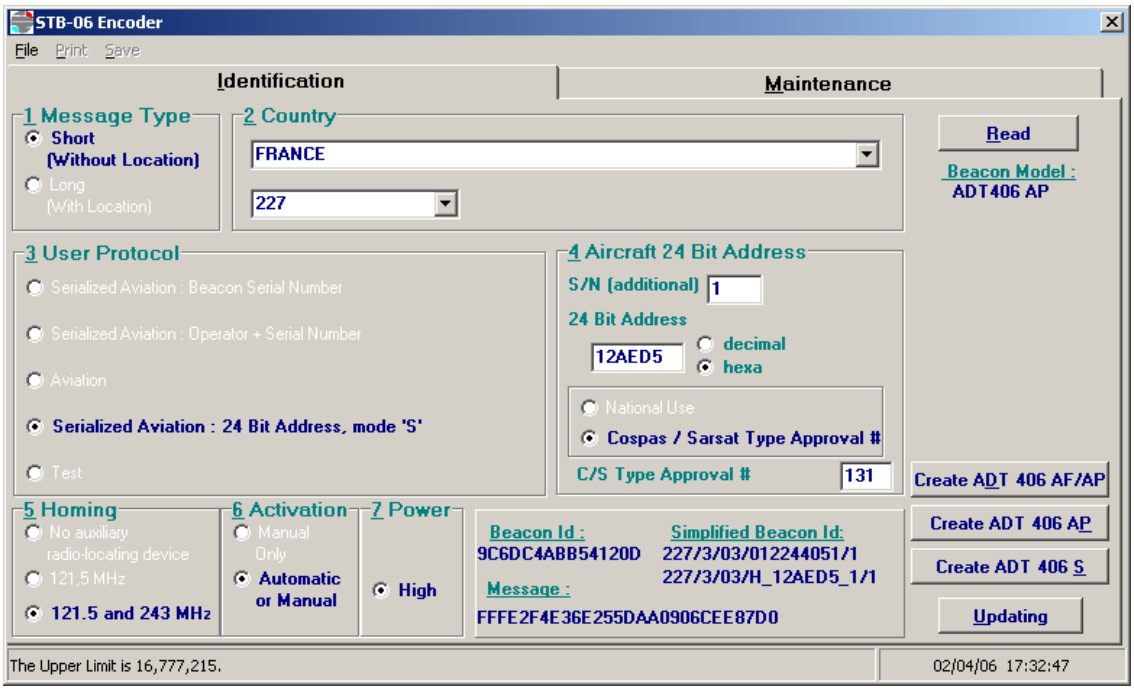
User Protocol – Aviation (ADT 406 AP)

Figure 12 Bis

Note: Fields of ITEM 4 shall be filled.

Note: Field 4 Aviation is the A/C registration marking (up to 7 characters). This field is right justified and "Space" are inserted to the left if less than 7 characters exist.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Serialized Aviation : 24 Bit Address, Mode 'S' (ADT 406 AP)

Figure 13 Bis

Note: In box 4, the operator shall assign the ELT index on board A/C (0 for the first one, 1…).

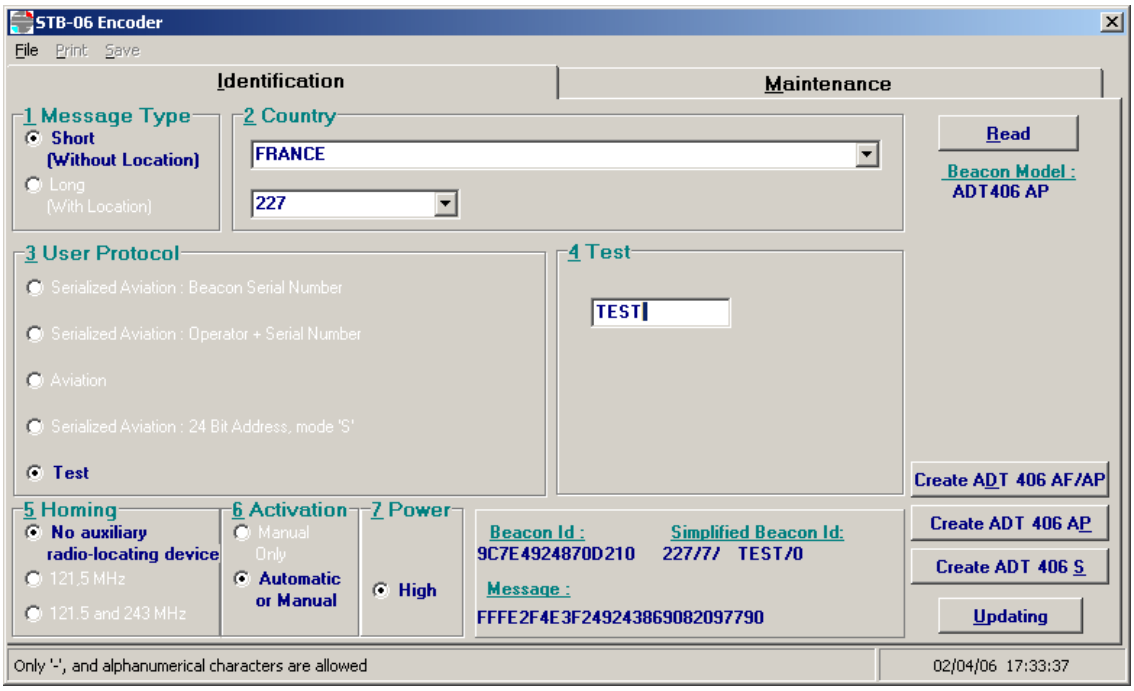
Note: The 24 bit address may be entered either in decimal (conversion from 24 bit binary to decimal) or in HEX (conversion from 24 bit binary to Hex value).

Note: To keep traceability with the previous ELT in service, Simplified Beacon ID is displayed in two notation, decimal (as before, 227/3/03/012244051/1 in the above screen) and in Hex (new capability, 227/3/03/H_12AED5_1/1 in the above screen). The operator will select which one he wants to use on the ELT Identification label.

Note : Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Test (ADT 406 AP)

Figure 14 Bis

Note : For the test protocol we recommend that the Homing signals be removed in order to avoid False alert. The Cospas-Sarsat message for test protocol is not processed by the Cospas-Sarsat system. This "TEST" transmission is considered as Non Operational and is discarded by the system. Upon dedicated request the local Cospas-Sarsat Mission Control Center (MCC) can send the ELT location information to the operator.

Note : Field of ITEM 4 shall be filled.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).

Upon completion of the parameters selection, click **Updating** to download the new identification in the ELT.

The screen instructs the Operator to turn ON the ELT.

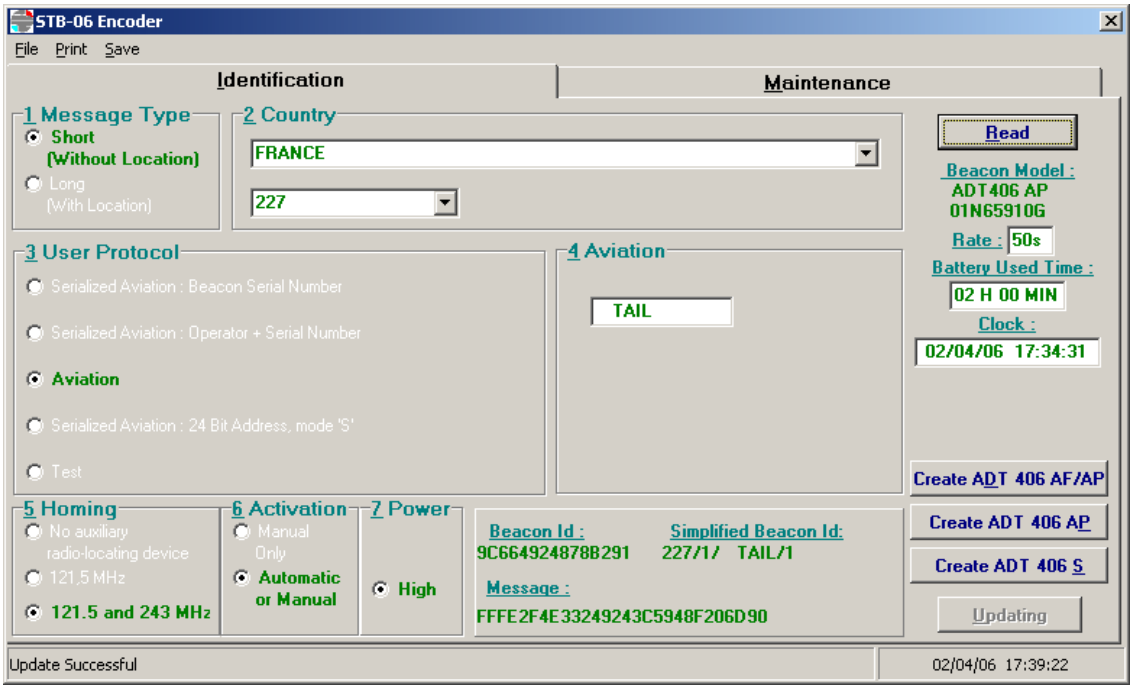
Turn ON the ELT transmitter.

The downloading of the data starts . When the downloading is over the screen instructs the Operator to turn OFF the ELT.

Turn OFF the ELT.

After an “Auto save” request (see § (c) Auto Save)

The following screen (Ref. Fig. 15 Bis) is displayed.



Identification Updated Screen (Aviation Example, for ADT 406 AP)

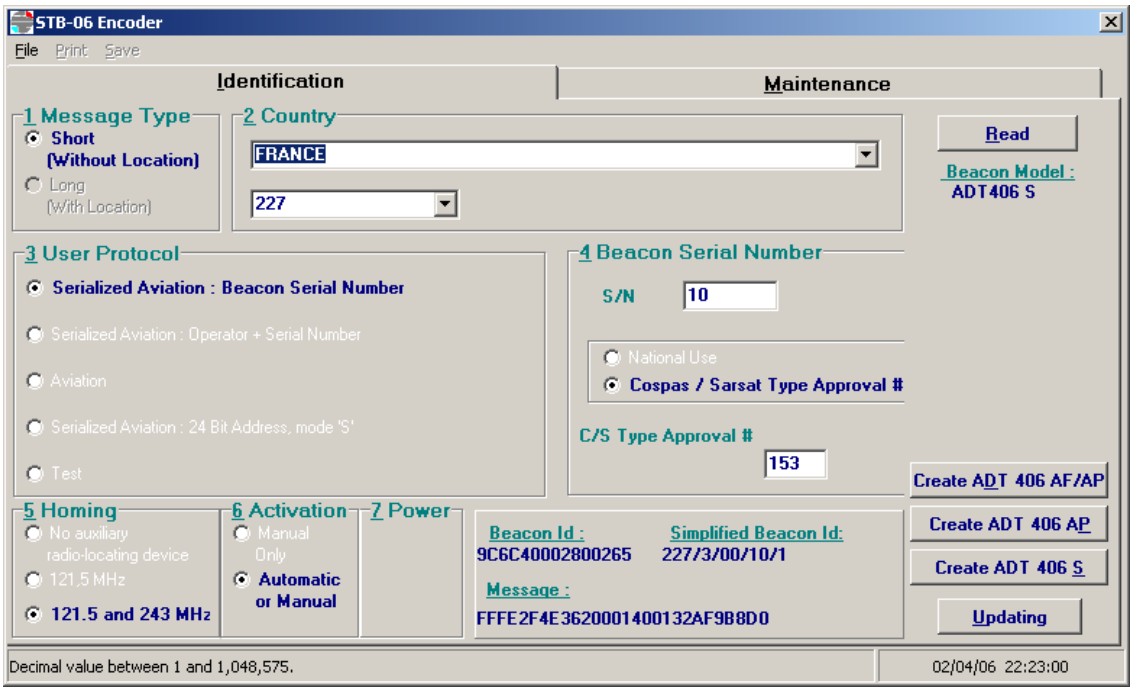
Figure 15 Bis

The message "Update Successful" appears in the left down corner of the screen.

Note : Detailed “C/S identification UPDATE” examples for each protocol and ELT type are presented in the ELTA recovery software CD ROM supplied with the ADT 406 C/S ID ENCODER.

c ADT 406 S Identification encoding examples (Activation/Identification module)

The following screens show the different available user protocols in conformity with the current Cospas-Sarsat specifications (Ref. Fig. 10 Ter to 14 Ter):



User Protocol - Serialized Aviation : Beacon Serial Number (ADT 406 S)

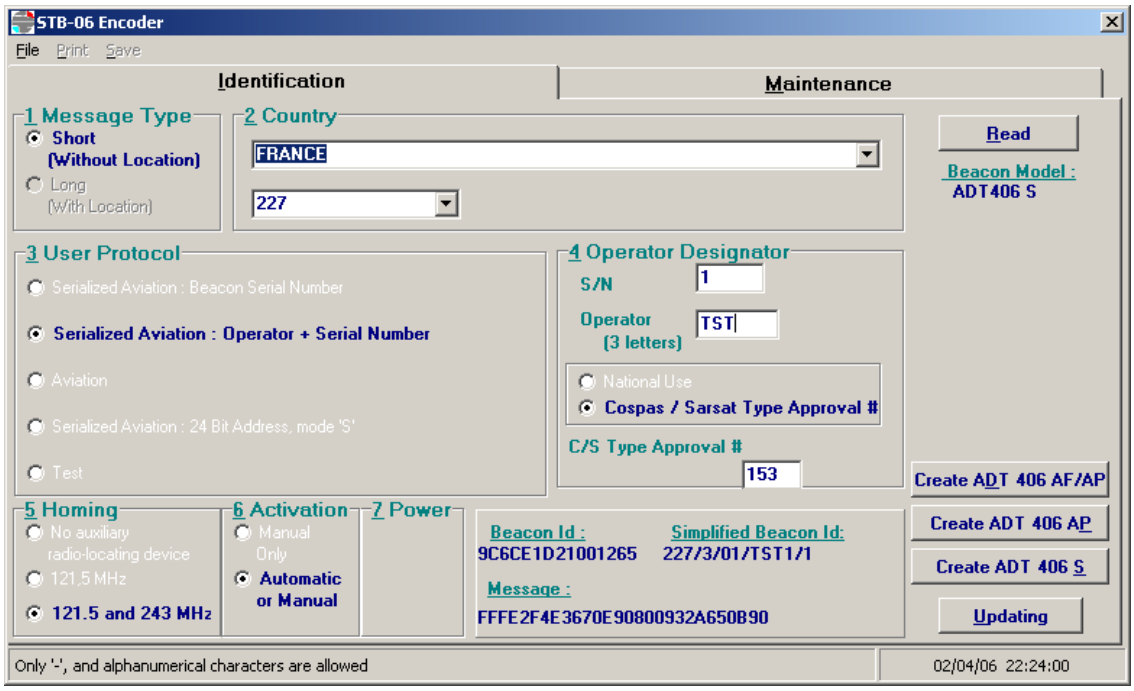
Figure 10 Ter

Note: Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value “Cospas-Sarsat Type Approval #”. If the local Authority require to use “National Use” the field “C/S Type Approval #” must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: S/N is the ELT serial number or a number given by the local Authority. This number is right justified (0 at left are not significant).

Note: The last line of the screen is an “On Line Help” related to the selected field (pointing cursor).



User Protocol – Serialized Aviation : Operator + Serial Number (ADT 406 S)

Figure 11 Ter

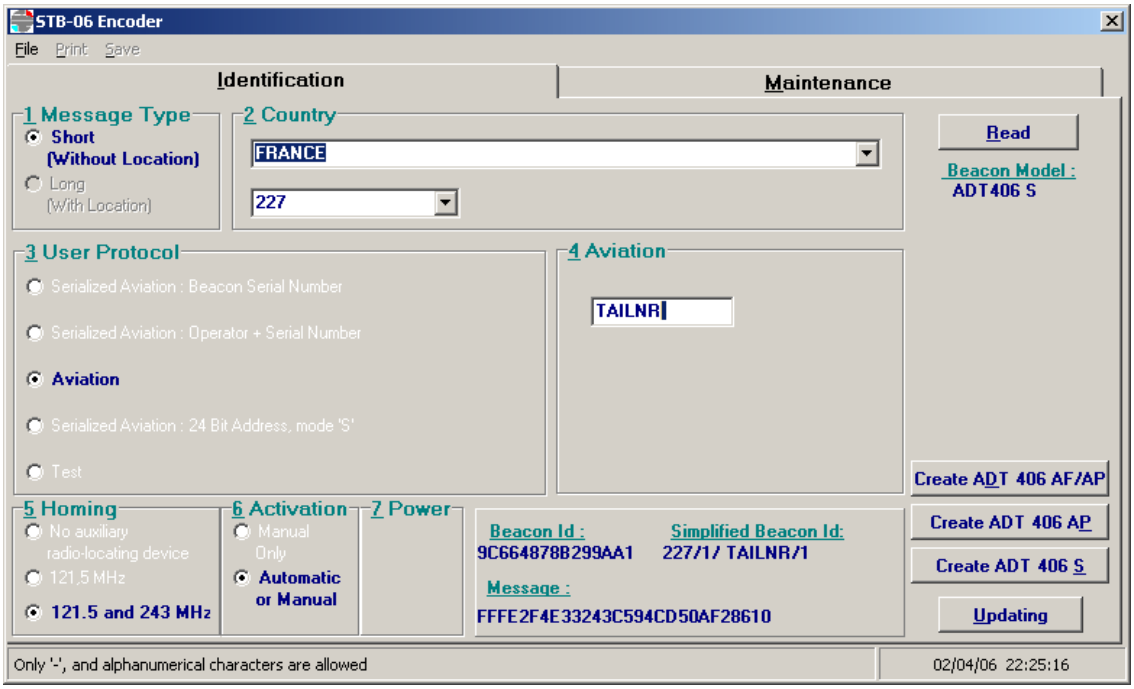
Note: Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: S/N is limited to 4095 and right justified (0 at left are not significant).

Note: Operator are the three letter assigned to any operator by ICAO

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



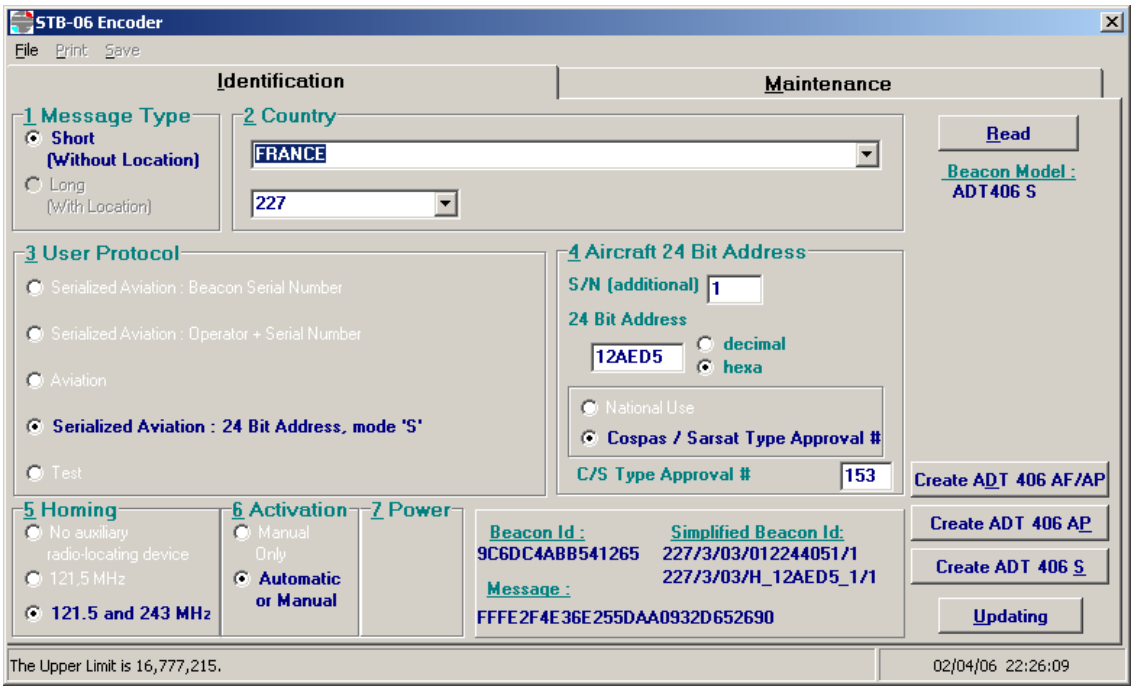
User Protocol – Aviation (ADT406 S)

Figure 12 Ter

Note: Fields of ITEM 4 shall be filled.

Note: Field 4 Aviation is the A/C registration marking (up to 7 characters). This field is right justified and "Space" are inserted to the left if less than 7 characters exist.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Serialized Aviation : 24 Bit Address, Mode 'S' (ADT 406 S)

Figure 13 Ter

Note: In box 4, the operator shall assign the ELT index on board A/C (0 for the first one, 1…).

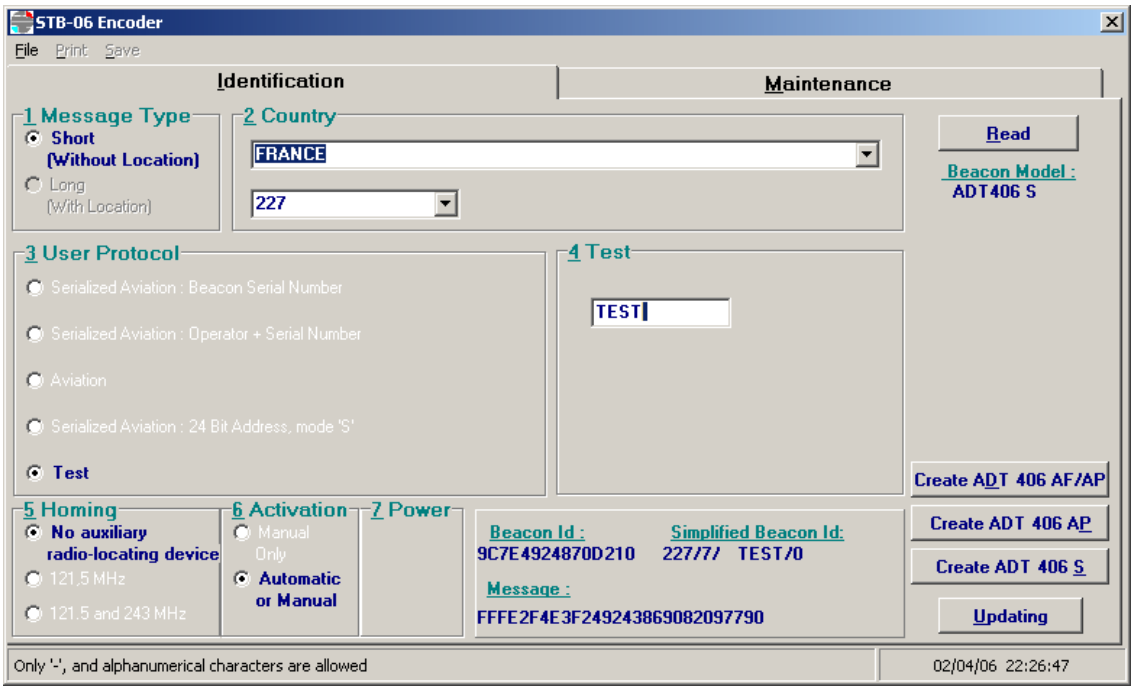
Note: The 24 bit address may be entered either in decimal (conversion from 24 bit binary to decimal) or in HEX (conversion from 24 bit binary to Hex value).

Note: To keep traceability with the previous ELT in service, Simplified Beacon ID is displayed in two notation, decimal (as before, 227/3/03/012244051/1 in the above screen) and in Hex (new capability, 227/3/03/H_12AED5_1/1 in the above screen). The operator will select which one he wants to use on the ELT Identification label.

Note : Fields of ITEM 4 shall be filled.

Note: We recommend to keep the default value "Cospas-Sarsat Type Approval #". If the local Authority require to use "National Use" the field "C/S Type Approval #" must be set to zero in order to be accordance with Cospas-Sarsat specification unless otherwise information given by the local Authority.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).



User Protocol – Test (ADT 406 S)

Figure 14 Ter

Note : For the test protocol we recommend that the Homing signals be removed in order to avoid False alert. The Cospas-Sarsat message for test protocol is not processed by the Cospas-Sarsat system. This "TEST" transmission is considered as Non Operational and is discarded by the system. Upon dedicated request the local Cospas-Sarsat Mission Control Center (MCC) can send the ELT location information to the operator.

Note : Field of ITEM 4 shall be filled.

Note: The last line of the screen is an "On Line Help" related to the selected field (pointing cursor).

Upon completion of the parameters selection, click **Updating** to download the new identification in the Activation/Identification module.

The screen instructs the Operator to turn ON the ELT.

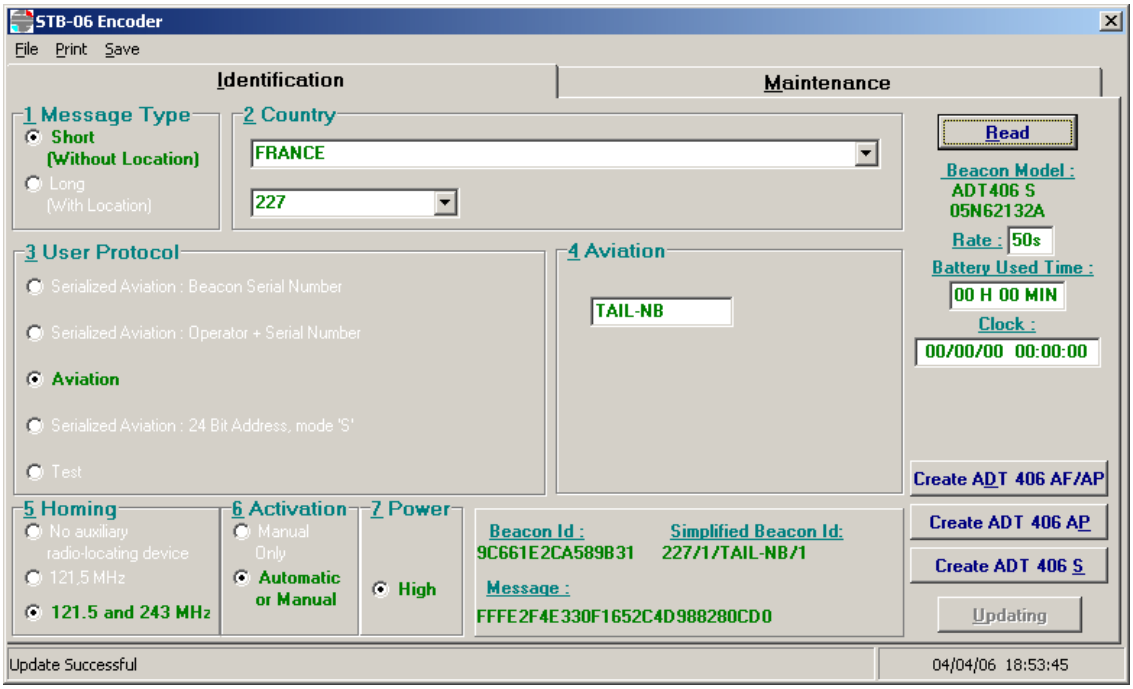
Turn ON the CodADT tool.

The downloading of the data starts . When the downloading is over the screen instructs the Operator to turn OFF the ELT.

Turn OFF the CodADT tool.

After an “Auto save” request (see § (c) Auto Save)

The following screen (Ref. Fig. 15 Ter) is displayed.



Identification Updated Screen (Aviation Example, for ADT 406 S)

Figure 15 Ter

The message "Update Successful" appears in the left down corner of the screen.

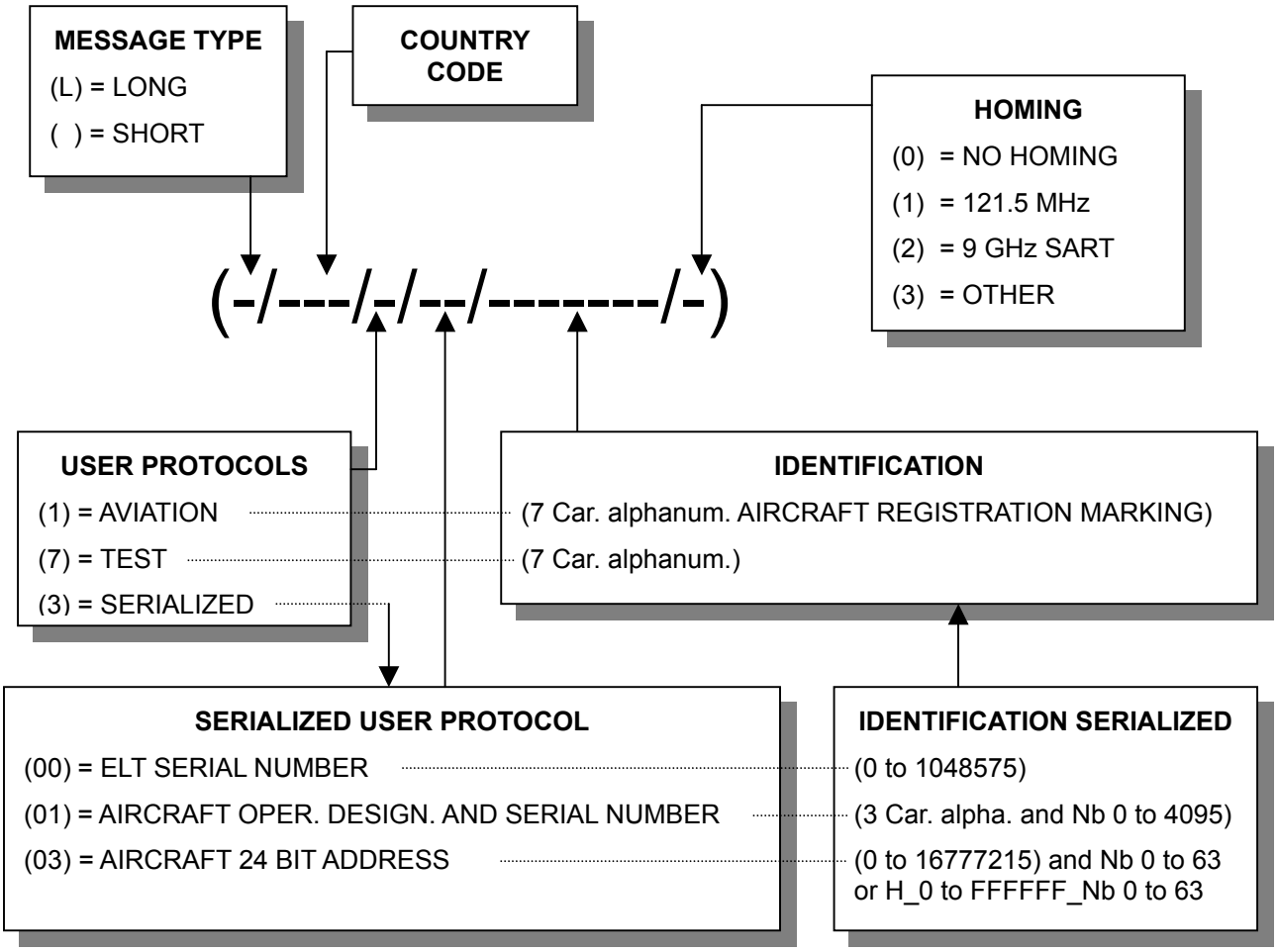
Note: Detailed “C/S identification UPDATE” examples for each protocol and ELT type are presented in the ELTA recovery software CD ROM supplied with the ADT 406 C/S ID ENCODER.

Note: The “Beacon Model” P/N 05N62132A indication is the CodADT one as it is used to encode the Activation/Identification module of the ADT 406 S. Battery Used Time and Clock are not relevant for ADT 406 S (set to 0).

The ELT Identification Simplified Decoding Table (Figure 16) is used to display the ELT Cospas-Sarsat Identification in the Identification Box. This presentation will ease the comprehension of the main COSPAS-SARSAT identification field.

IMPORTANT:

Please note that the official COSPAS-SARSAT Identification is made by the 15 HEX digits of the "BEACON ID:" in the Identification Box



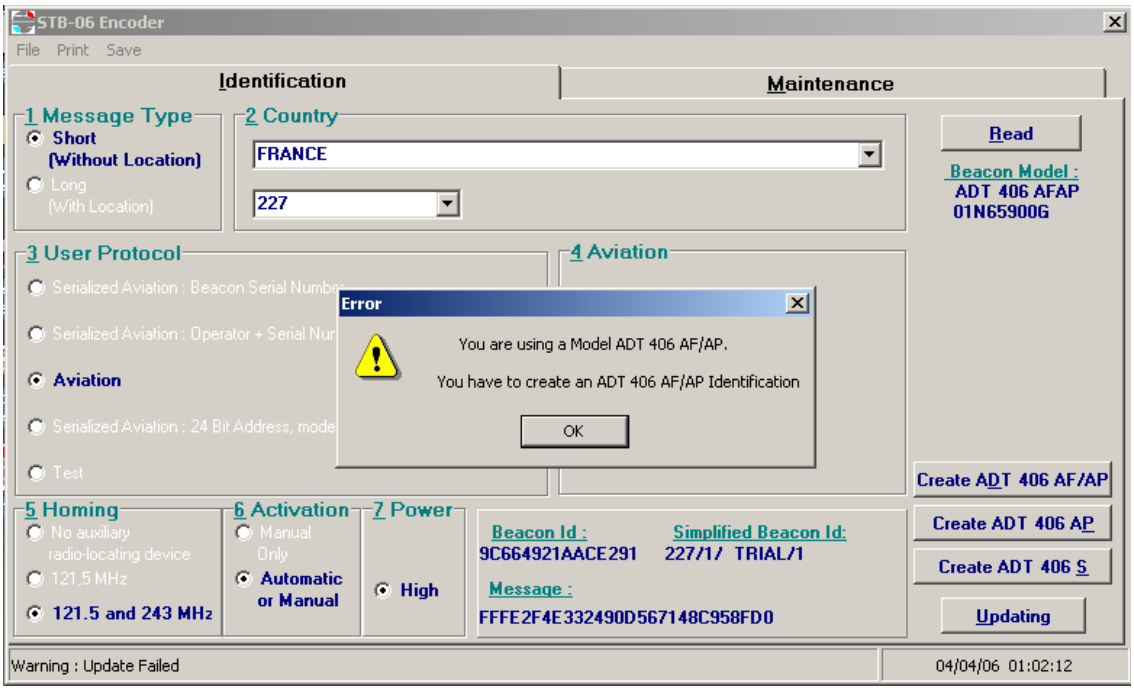
ELT Identification Simplified Decoding Table

Figure 16

d ADT 406 error protection

In case of discrepancy between the selected ELT model and the actual ELT model connected, a warning box is displayed . The operator must re-perform his selection with the correct ELT model by pressing again the relevant function button “Create ADT 406 AF/AP” or “Create ADT 406 AP” or “Create ADT 406 S”.

Fig. 16 Bis is an example.



Wrong ELT connection warning Box

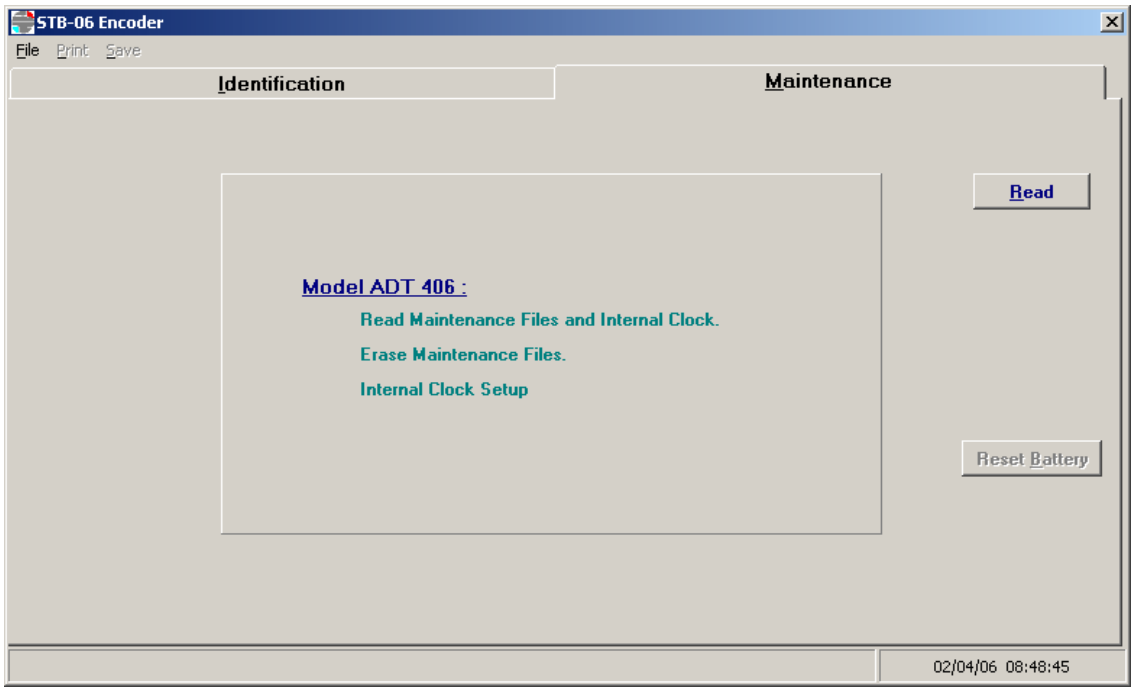
Figure 16 Bis

(b)Reading Of Maintenance Tasks

On the ADT 406 C/S ID ENCODER main menu screen Click **Maintenance**. The following maintenance screen (Ref. Fig. 17) is then displayed.

Note: Operator can select Maintenance on identification screen.

Note: This task applies only to ELT models ADT 406 AF/AP and ADT 406 AP. It is not relevant for the ADT 406 S.



Maintenance Screen

Figure 17

1 ADT406 AF/AP or ADT 406 AP ELT

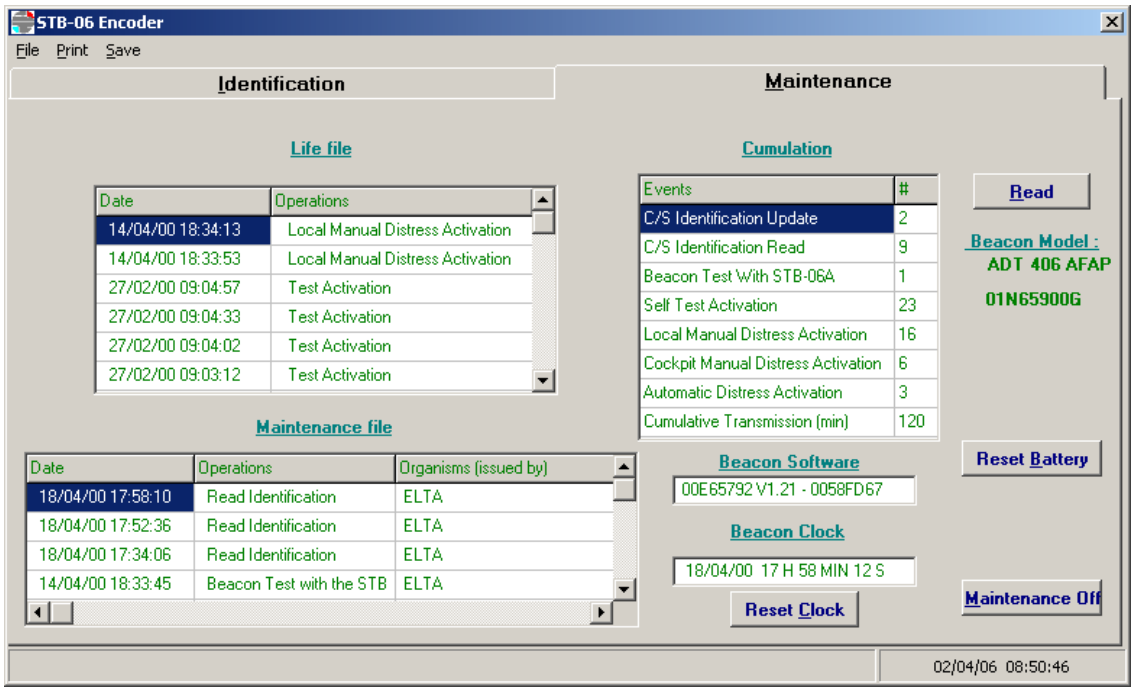
With these ELT models, maintenance deals with the battery used time counter and with three types of files:

- Life file for the operations occurring on the ELT,
- Maintenance file for the operations performed to the ELT,
- Events file (operation made by / for the ELT),

Click **Read**. The screen instructs the Operator to turn ON the ELT.

Turn ON the ELT. The loading of the maintenance information starts . When the loading is over the displayed screen instructs the Operator to turn OFF the ELT.

After turning OFF the ELT, then the following screen (Ref. Fig. 18 or Fig. 18 Bis) is displayed.

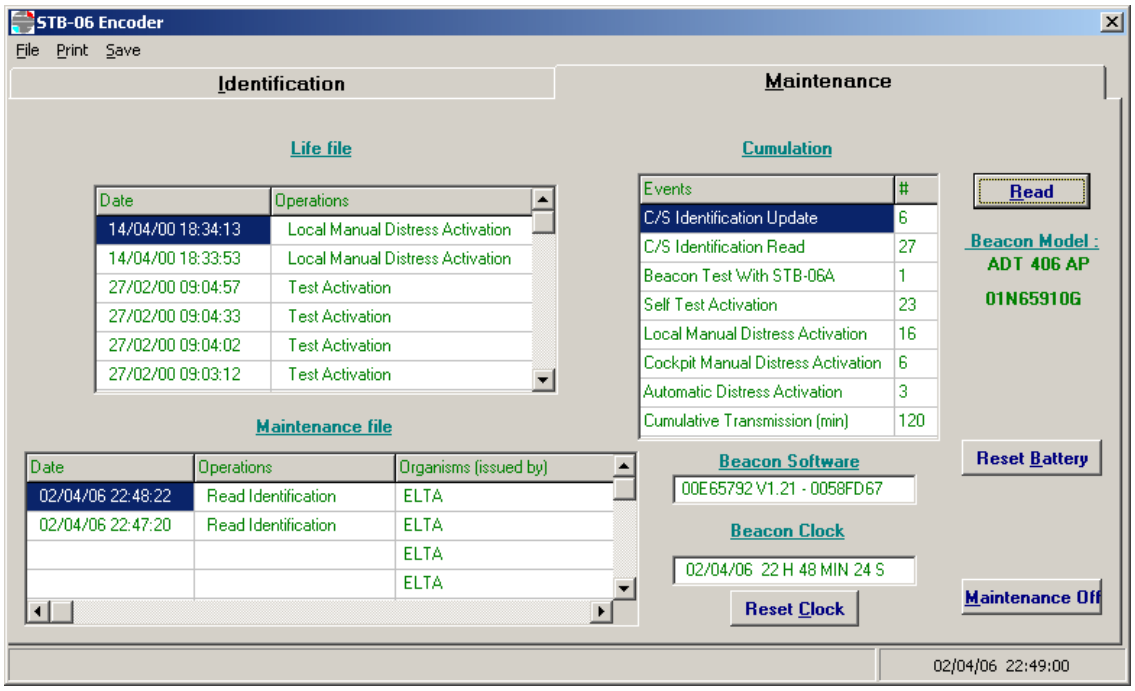


Maintenance Task Screen for ADT 406 AF/AP

Figure 18

Note: Maintenance Off function key will perform an automatic save (AutoSave) of the maintenance report . Then the key will disappear informing the operator that the report is safely stored.

Note: AutoSave of the maintenance report is performed if the operator exit from this screen without having save the results



Maintenance Task Screen for ADT 406 AP

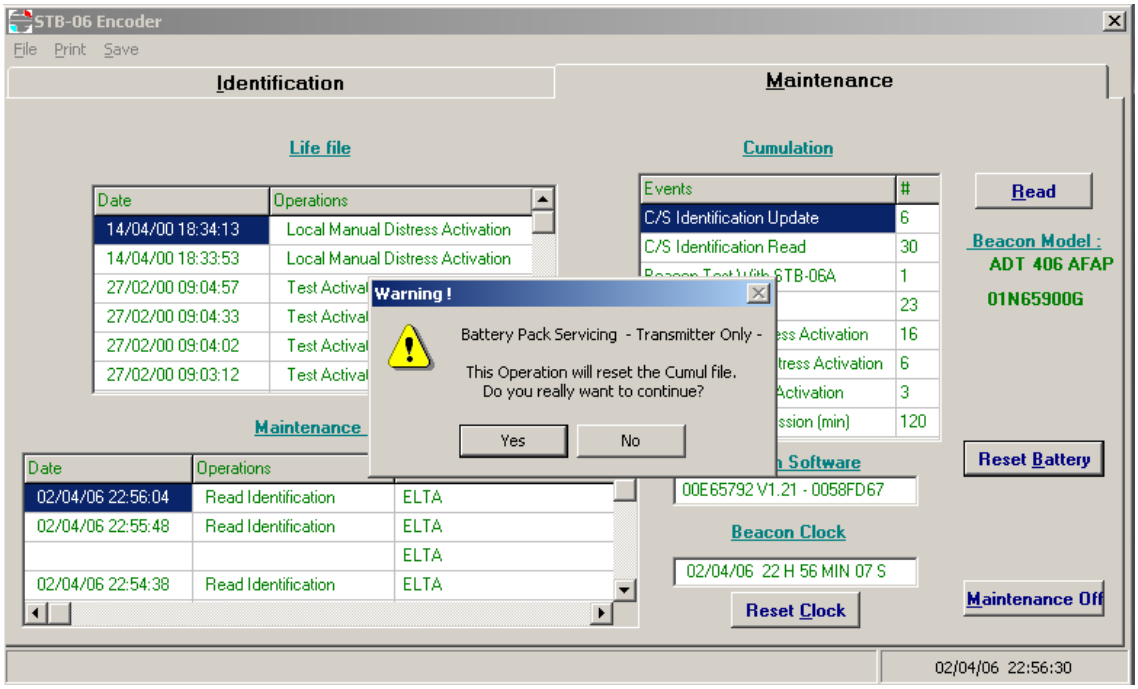
Figure 18 Bis

The maintenance function will save all the operations performed on the ELT. It indicates the ELT date (real time clock), the hour, the type of operation and the name of the Organization that performed the task.

In addition to the above information, the screen displays the ELT software version implemented, the ELT internal real time clock, and controls buttons Read, Reset Clock and Reset Battery.

Note : If the boxes are not completely displayed, click in the box and use displacement arrows to display the full box (right – left).

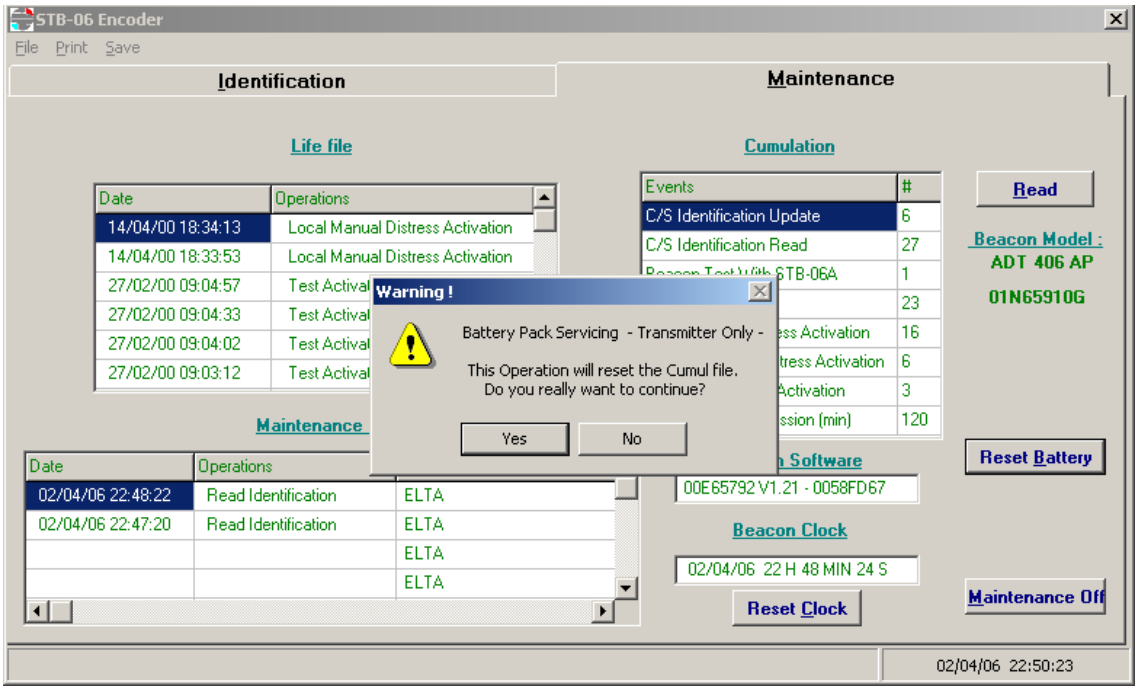
Click on **Reset Battery** to reset the data related to Battery counter and listing of events (with cumulative number per events type), the following screen will be displayed (Ref. Fig. 19 or Fig. 19 Bis).



Reset Battery for ADT 406 AF/AP

Figure 19

Note: Not Relevant for ADT 406 S.



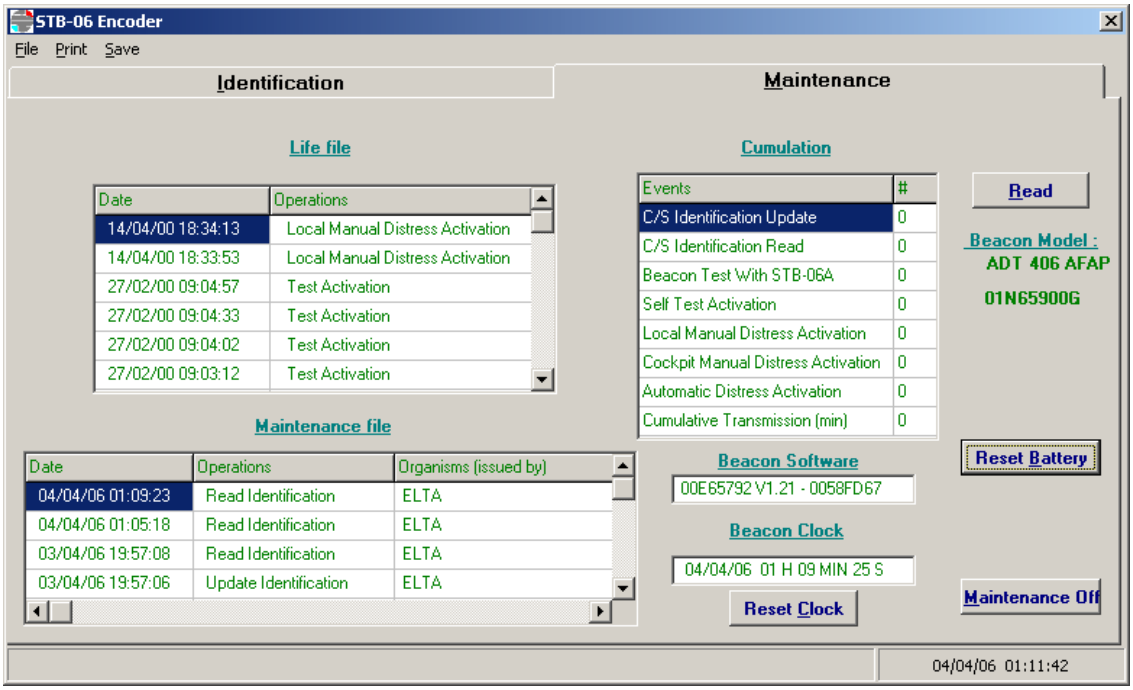
Reset Battery for ADT 406 AP

Figure 19 Bis

Click **YES** to perform the task.

Note: Not Relevant for ADT 406 S.

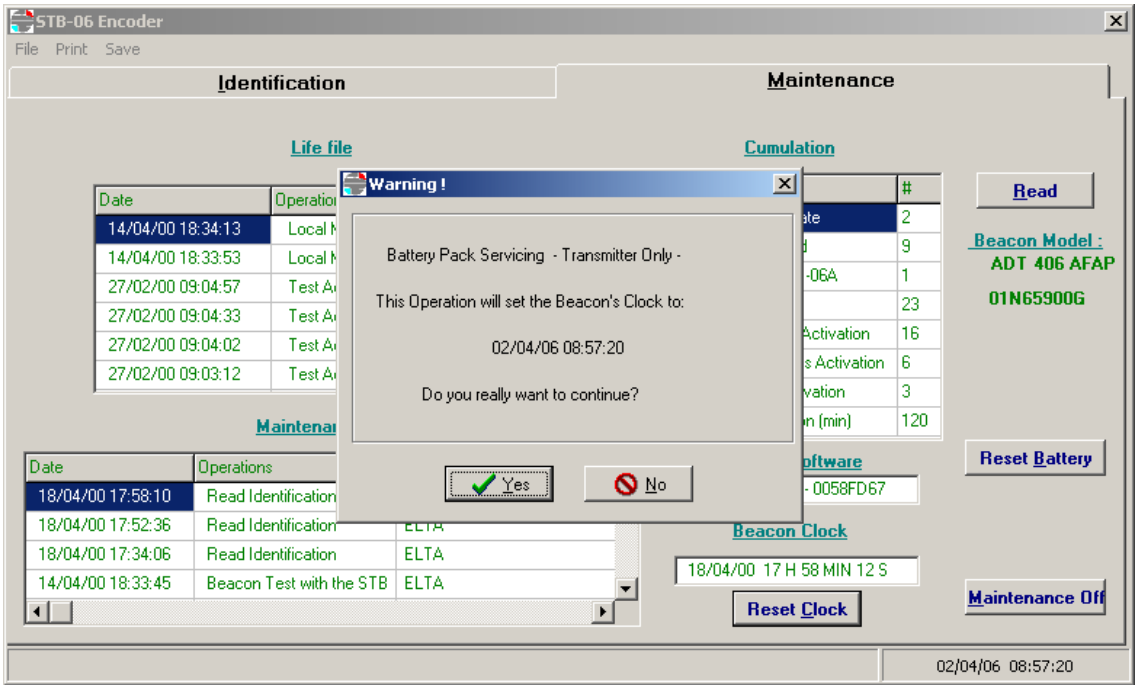
The following screen (Ref. Fig. 20) shows the event counters with all the number reset to zero.



Reset Screen

Figure 20

Click on **Reset Clock** to reset the data, the following screen will be displayed (Ref. Fig. 21).
The value of the computer clock will be downloaded to the ELT internal real time clock.



Reset Clock Screen

Figure 21

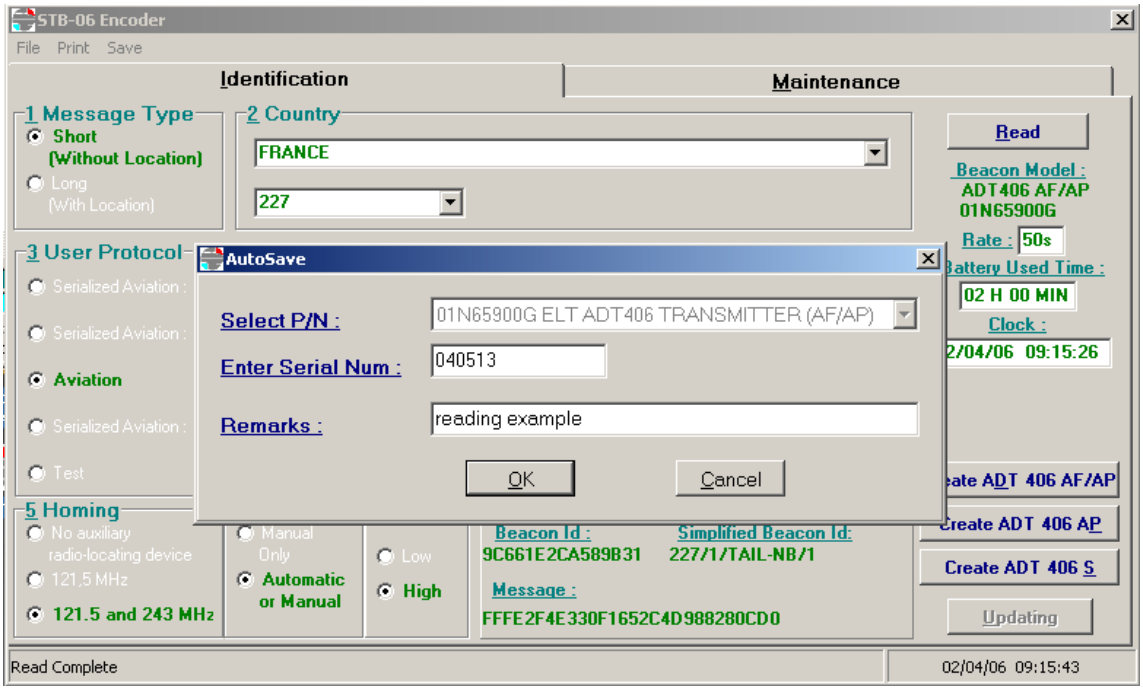
Click **YES** to perform the task.

Note: Not Relevant for ADT 406 S.

(c)Auto save

After each upload information from the ELT the software propose an automatic save of the report obtained Read or Update (Ref. Fig. 22 to 24).

ADT 406 AF/AP is given as example but same screens exist for ADT 406 AP and ADT 406 S.



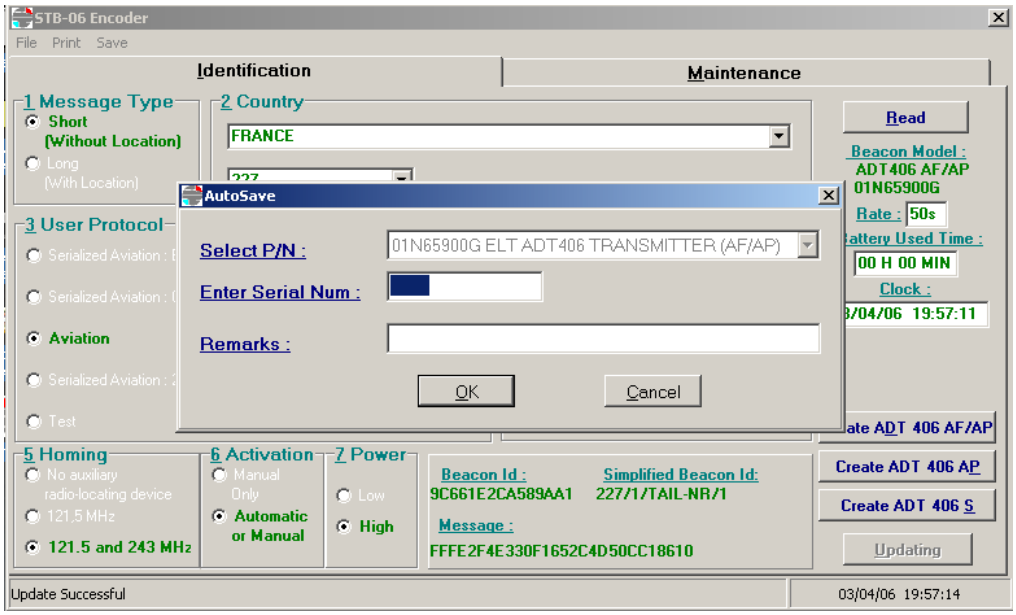
Auto Save after a “READ”

Figure 22

It is an example of saving C/S IDENTIFICATION READ results for an ADT 406 AF/AP.
Same type of screen appears for C/S updating process and maintenance tasks and for the other ELT models.

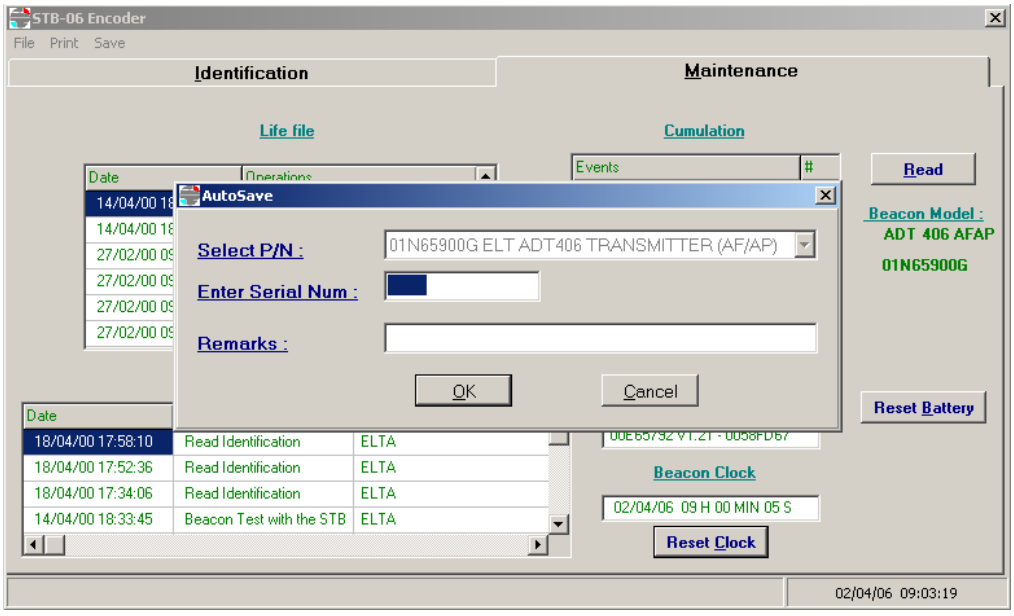
Note: For the ADT 406 the P/N is automatically inserted in the field (not modifiable) as it is read from the ELT transmitter. For the ADT 406 without P/N management you must select the correct P/N from the proposed list.

Note : make sure that the Select P/N is in accordance with the tested ELT.



Auto Save after an “UPDATE”

Figure 23



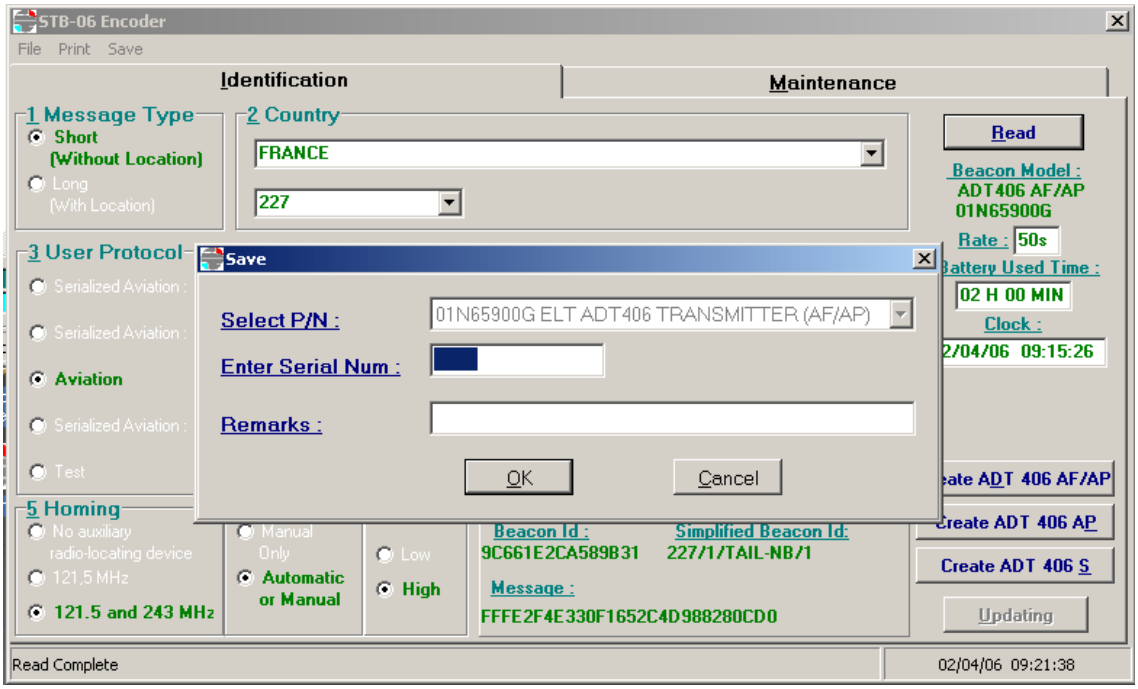
Auto Save after a “MAINTENANCE”

Figure 24

(d) Saving And Printing

The saving and printing operation use the same procedure (the only difference is the name of the screen: Save or Print). The operator can save or print the screen report at any time.

Select **Print** or **Save** menu, the following display (Ref. Fig. 25) appears :



Save / Print Display

Figure 25

It is an example of saving C/S IDENTIFICATION READ results for an ADT 406 AF/AP.
Same type of screen appears for C/S updating process and maintenance tasks and for the other ELT models.

Note: For the ADT 406 AF/AP & ADT 406 AP, the P/N is automatically inserted in the field (not modifiable) as it is read from the ELT transmitter. For the ADT 406 S without P/N management you must select the correct P/N from the proposed list (not red from the ELT transmitter).

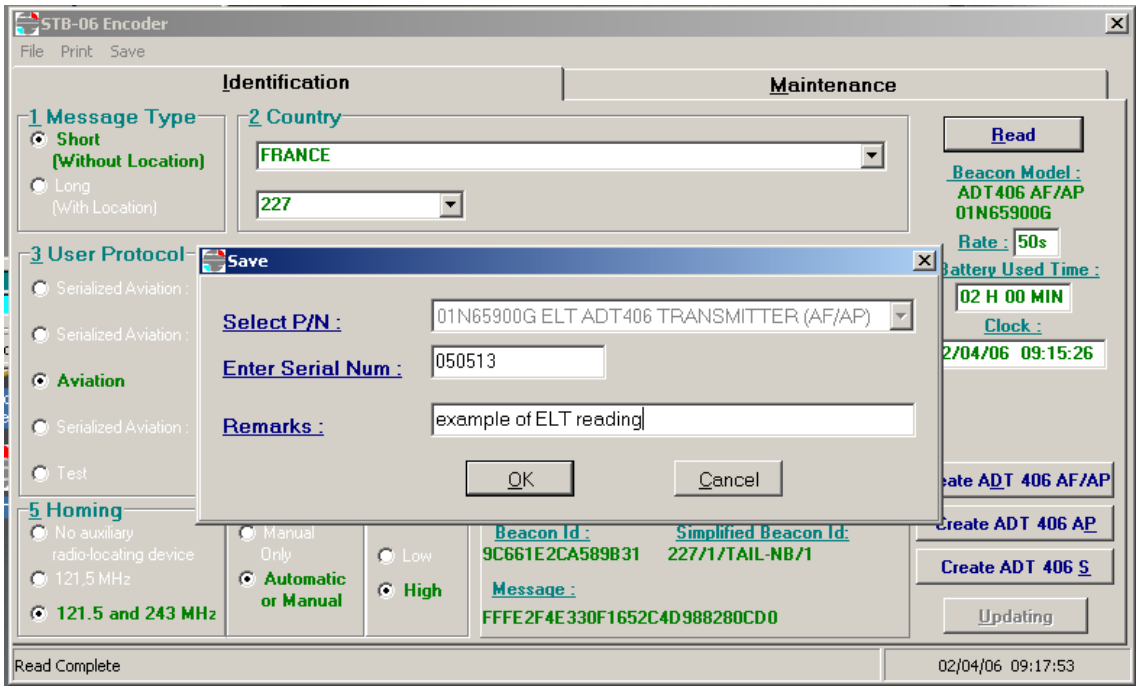
Note : make sure that the Select P/N is in accordance with the tested ELT.

Enter Serial Number ,

Enter Remarks : possibility to enter a remark with up to 40 characters for following up,

Select the correct Part Number (P/N) from the scroll-down menu if available (Ref. Fig 23):

Note: Entering Serial Number and remarks are not mandatory but highly recommended as these information will be inserted in the saved file and will ease further ELT following up.

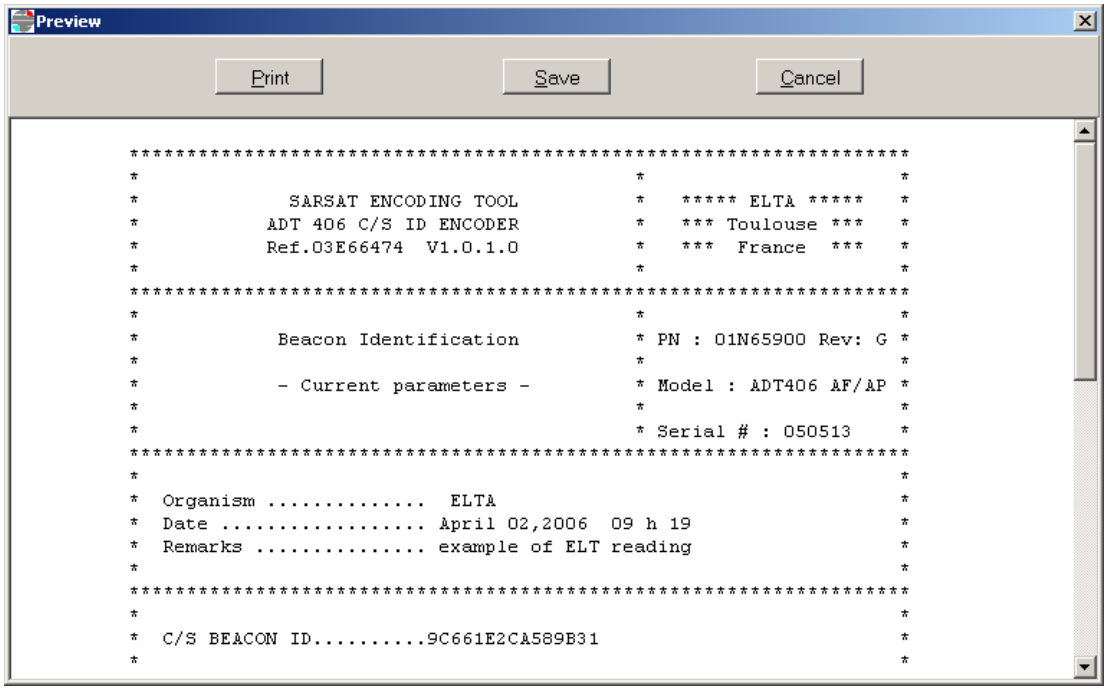


Entry of P/N, S/N & Remarks Screen

Figure 26

Click **Ok**. And a preview is displayed on the screen.

The following preview screen for Read is displayed.



```
*****************************************************************************
*                                    *                                      *
*          SARSAT ENCODING TOOL      *       ***** ELTA *****               *
*        ADT 406 C/S ID ENCODER      *       *** Toulouse ***               *
*        Ref.03E66474  V1.0.1.0      *       ***  France  ***               *
*                                    *                                      *
*****************************************************************************
*                                    *                                      *
*                                    *     PN : 01N65900 Rev: G             *
*          Beacon Maintenance        *                                      *
*                                    *     Model : ADT406 AF/AP             *
*                                    *                                      *
*                                    *     Serial # : 040513                *
*****************************************************************************
*                                                                           *
*  Organism ...........  ELTA                                              *
*  Date................ April 04,2006  01 h 10                             *
*  Remarks............. balise retour test dassault 2 heures               *
*                                                                           *
*****************************************************************************
*                                                                           *
*         Beacon Software                  Beacon Clock                     *
*                                                                           *
*   00E65792 V1.21 - 0058FD67        04/04/06  01 H 09 MIN 25 S            *
*                                                                           *
*****************************************************************************
*                        Maintenance file (task performed)                  *
*                                                                           *
*        date                Task                 issued by (Organism)     *
*                                                                           *
*  04/04/06 01:09:23   Read Identification         EL                        *
*  04/04/06 01:05:18   Read Identification         EL                        *
*  03/04/06 19:57:08   Read Identification         EL                        *
*  03/04/06 19:57:06   Update Identification       EL                        *
*  03/04/06 19:55:51   Read Identification         EL                        *
*  02/04/06 22:56:04   Read Identification         EL                        *
*  02/04/06 22:55:48   Read Identification         EL                        *
*  02/04/06 22:54:38   Read Identification         EL                        *
*  02/04/06 22:48:22   Read Identification         EL                        *
*  02/04/06 22:47:20   Read Identification         EL                        *
*  02/04/06 22:45:34   Read Identification         EL                        *
*  02/04/06 22:31:38   Read Identification         EL                        *
*  02/04/06 22:27:56   Read Identification         EL                        *
*  02/04/06 22:27:54   Update Identification       EL                        *
*  02/04/06 22:27:32   Read Identification         EL                        *
*                                                                           *
*****************************************************************************
*                                                                           *
*                        Life file (operation performed)                    *
*                                                                           *
*       date                      Operation                                 *
*                                                                           *
*    14/04/00 18:34:13         Local Manual Distress Activation             *
*    14/04/00 18:33:53         Local Manual Distress Activation             *
*    27/02/00 09:04:57         Test Activation                              *
*    27/02/00 09:04:33         Test Activation                              *
*    27/02/00 09:04:02         Test Activation                              *
*    27/02/00 09:03:12         Test Activation                              *
*    27/02/00 09:01:14         Local Manual Distress Activation             *
*    27/02/00 09:00:44         Test Activation                              *
*    27/02/00 08:59:39         Local Manual Distress Activation             *
*    27/02/00 08:57:25         Automatic Distress Activation                *
*    27/02/00 08:56:29         Automatic Distress Activation                *
*    27/02/00 08:55:06         Cockpit Manual Distress Activation           *
*    27/02/00 08:54:19         Test Activation                              *
*    27/02/00 08:53:36         Test Activation                              *
*    27/02/00 08:50:57         Cockpit Manual Distress Activation           *
*    27/02/00 08:47:22         Test Activation                              *
*    27/02/00 08:46:34         Local Manual Distress Activation             *
*    27/02/00 08:45:48         Cockpit Manual Distress Activation           *
*    27/02/00 08:44:35         Test Activation                              *
*    27/02/00 08:43:57         Cockpit Manual Distress Activation           *
*                                                                           *
*****************************************************************************
*                                                                           *
*                        Cumulation file                                    *
*                                                                           *
*               Events                                                      *
*                                                                           *
*               Identification creation/update       1                      *
*               Identification Read                  4                      *
*               Beacon Test With STB-06A             0                      *
*               Self Test Activation                 0                      *
*               Local Manual Distress Activation     0                      *
*               Cockpit Manual Distress Activation   0                      *
*               Automatic Distress Activation        0                      *
*               Total Transmission time (in minutes) 0                      *
*                                                                           *
*****************************************************************************
```

Printing and Saving, Maintenance Screen (example)

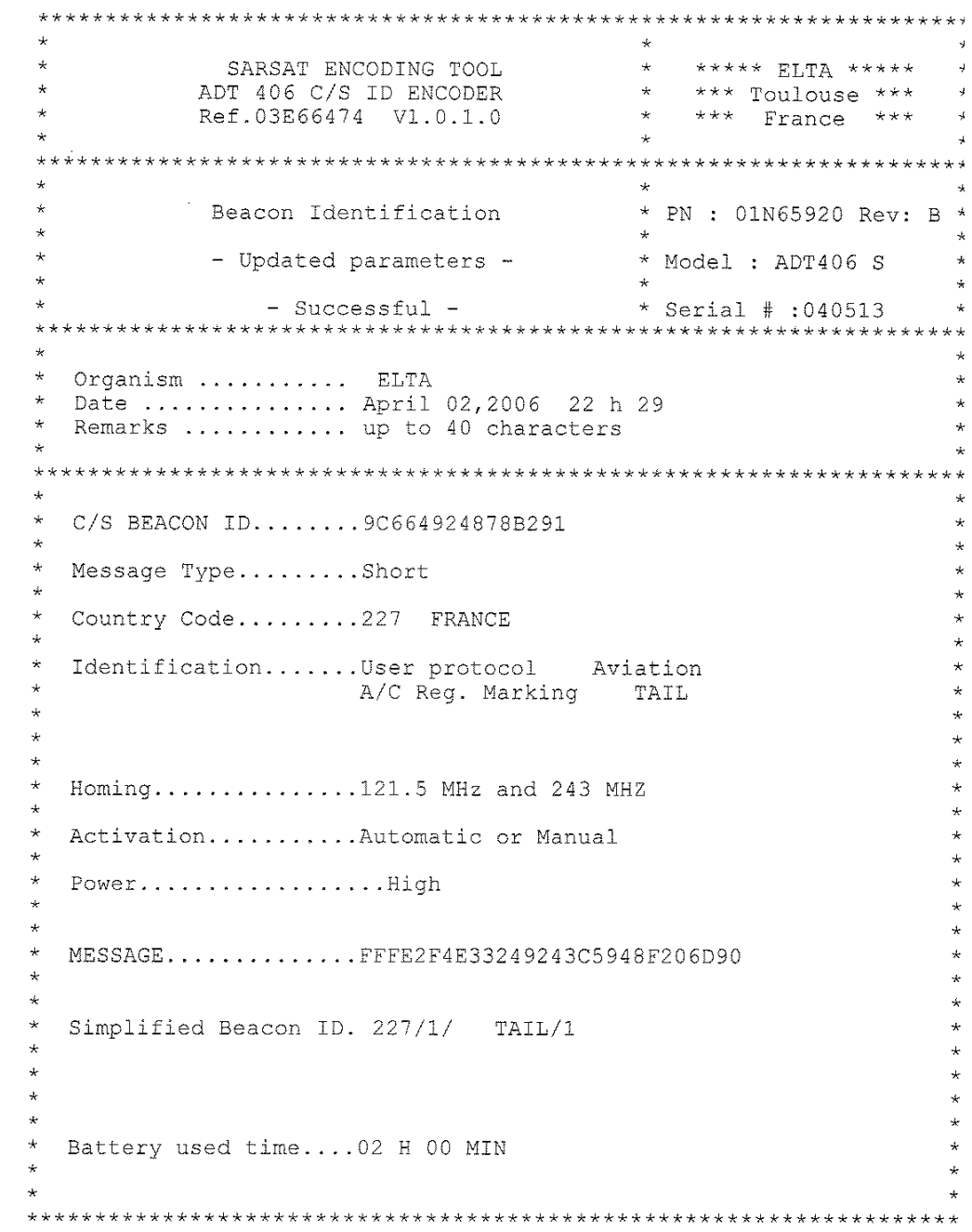
Figure 27

The two following screens (Ref. Fig 28 to 29) are the printing and saving screens for the Identification, and Update functions.

```
**********************************************************************
*                                        *                           *
*             SARSAT ENCODING TOOL       *   ***** ELTA *****       *
*           ADT 406 C/S ID ENCODER       *   *** Toulouse ***       *
*           Ref.03E66474  V1.0.1.0       *   ***  France  ***       *
*                                        *                           *
**********************************************************************
*                                        *                           *
*            Beacon Identification       * PN : 01N65910 Rev: G      *
*                                        *                           *
*            - Current parameters -      * Model : ADT406 AP         *
*                                        *                           *
*                                        * Serial # :                *
**********************************************************************
*                                                                    *
*  Organism ..............  ELTA                                     *
*  Date .................. April 02,2006  17 h 23                    *
*  Remarks ............... Up to 40 characters                       *
*                                                                    *
**********************************************************************
*                                                                    *
*  C/S BEACON ID.....9C661E2CA589B31                                 *
*                                                                    *
*  Message Type.....Short                                            *
*                                                                    *
*  Country Code.....227  FRANCE                                      *
*                                                                    *
*  Identification.....User protocol    Aviation                      *
*                     A/C Reg. Marking TAIL-NB                       *
*                                                                    *
*                                                                    *
*                                                                    *
*  Homing.............121.5 MHz and 243 MHZ                          *
*                                                                    *
*  Activation.....Automatic or Manual                                *
*                                                                    *
*  Power.............High                                           *
*                                                                    *
*                                                                    *
*  MESSAGE.............FFFE2F4E330F1652C4D988280CD0                  *
*                                                                    *
*                                                                    *
*                                                                    *
*  Simplified Beacon ID... 227/1/TAIL-NB/1                           *
*                                                                    *
*                                                                    *
*                                                                    *
*                                                                    *
*  Battery used time......02 H 00 MIN                                *
*                                                                    *
**********************************************************************
```

Saving and Printing, Reading Identification Screen (example)

Figure 28



Saving and Printing, Update Screen (example)

Figure 29

The file is saved in the SAVE directory that include the following sub directories: Test, Read, Maintenance and Update.

The file is automatically directed to its corresponding sub directory.

The first letter of the automatic reference is the first letter of the selected operations :, **R** for Read, **M** for maintenance and **U** for Update.

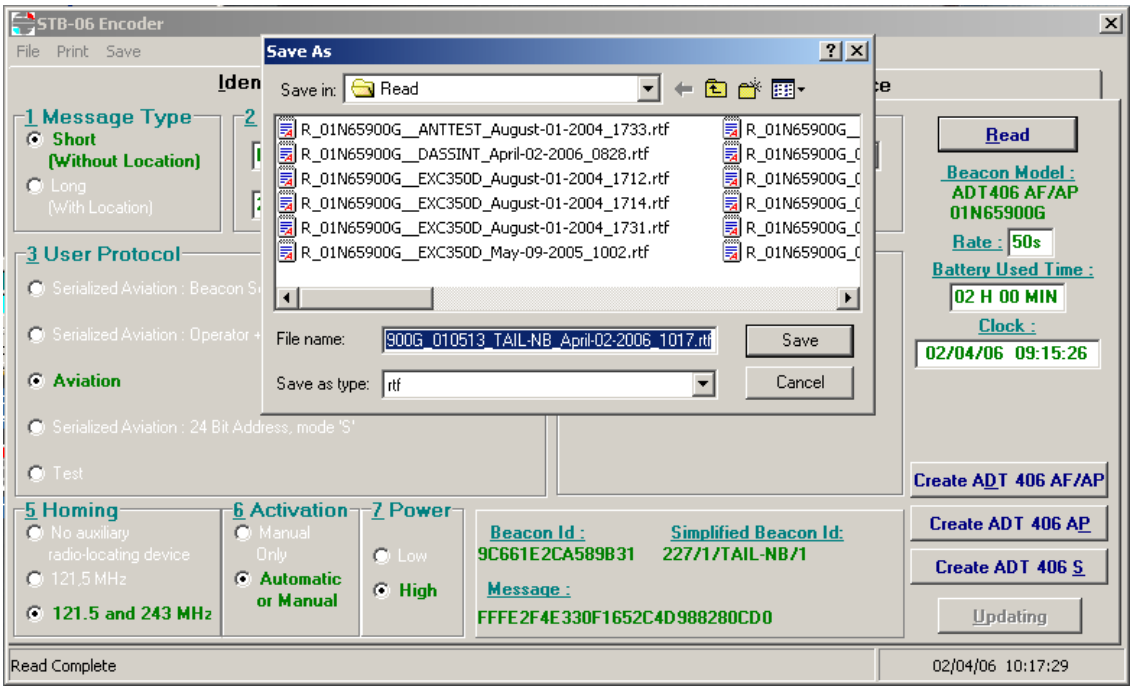
This letter is merged with the P/N and C/S simplified identification as described in figure 30 (up to 7 characters).

Date and hour that the record was saved are then added automatically in the file name.

For example " R_01N65900_EXAMPLE_December-16-2003_1914" indicates: Read content, P/N 01N65900, with C/S simplified ID EXAMPLE, made on December16, 2003 at 19h14'.

This is a recommended name but the operator can change it ,if required or more convenient.

The following screen (Ref. Fig. 30) is an example of a Read file being saved.



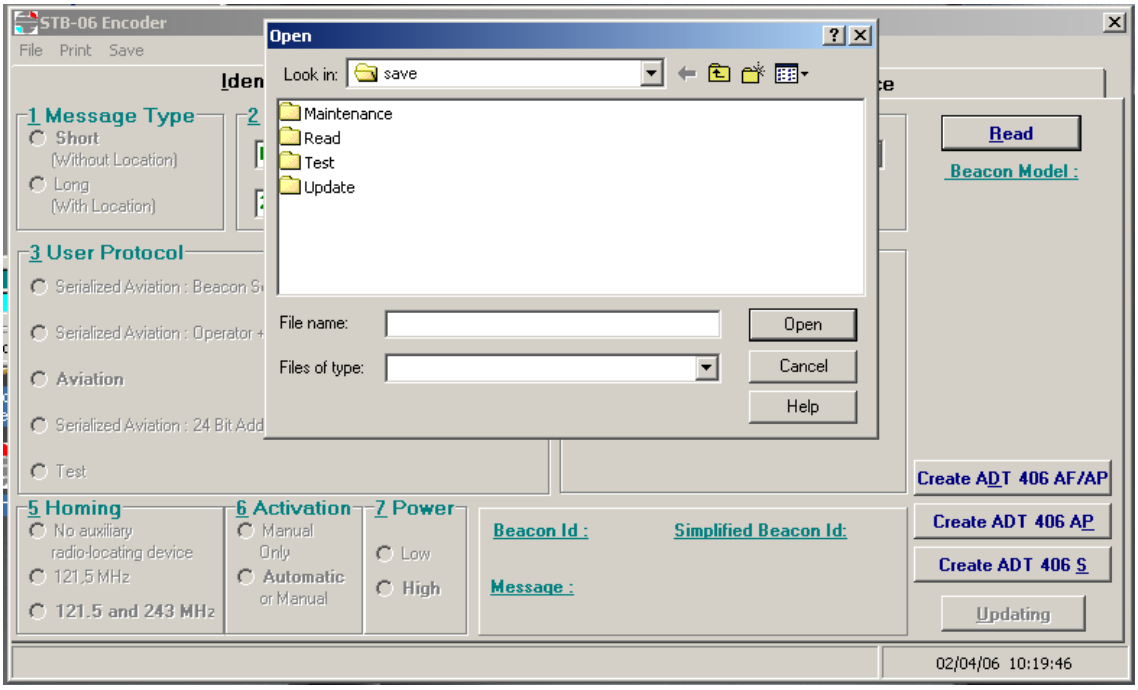
Saving Directory

Figure 30

(e)Access to saved files reports

For opening saved file, click on File in the top left of the window and select Open.

The following screen (Ref. Fig. 31) is displayed and choice the function type directory.



Open File

Figure 31

Select the required sub-directory,

Select the required file,

Click on “Open”

A preview of the selected file is displayed on screen.

4. MAINTENANCE

The ADT 406 C/S ID ENCODER does not require any special maintenance operation, care must simply be taken to ensure that the encoding cable and the CodADT tool are not damaged.

A. Calibration

The ADT 406 C/S ID ENCODER does not need any calibration. It performs only encoding tasks so no “Radio Frequency measurement” are performed.

B. Spare parts list

Spare parts are available in order to guarantee reliability. The spare parts list is limited to

- Programming cable for ADT 406(x) : 02N65746
- Software on CD ROM or floppy disk : 03E66474
- CodADT tool : 05N62132

Contact ELTA to obtain these spare parts if necessary.

C. LIST OF COUNTRIES AND THE ASSOCIATED COUNTRY CODES IN ALPHABETICAL ORDER

The list below was edited in March 2006. It correspond to the country code file V1.3 (13/03/06).

Refer to the official COSPAS/SARSAT list for updates. This list can be obtained at the following electronic address : www.cospas-sarsat.org/Mainpages/indexEnglish.html ,then select “Beacons” and “406 MHz Beacon Decode”, then click “here” for the list of MIDs, country code”.

Country code file V1.3 (13/03/06)

0355 -
0356 -
0357 -
0501 Adelie Land
0401 Afghanistan
0303 Alaska (State of)
0201 Albania (Republic of)
0605 Algeria (People's Democratic Republic of)
0559 American Samoa
0202 Andorra (Principality of)
0603 Angola (Republic of)
0301 Anguilla
0304 Antigua and Barbuda
0701 Argentine Republic
0216 Armenia (Republic of)
0307 Aruba
0608 Ascension Island
0503 Australia
0203 Austria
0423 Azerbaijani Republic
0204 Azores
0309 Bahamas (Commonwealth of the)
0408 Bahrain (Kingdom of)
0405 Bangladesh (People's Republic of)
0314 Barbados
0206 Belarus (Republic of)
0205 Belgium
0312 Belize
0610 Benin (Republic of)
0310 Bermuda
0410 Bhutan (Kingdom of)
0720 Bolivia (Republic of)
0611 Botswana (Republic of)
0710 Brazil (Federative Republic of)
0378 British Virgin Islands
0508 Brunei Darussalam
0207 Bulgaria (Republic of)
0633 Burkina Faso
0609 Burundi (Republic of)
0514 Cambodia (Kingdom of)
0613 Cameroon (Republic of)
0316 Canada
0617 Cape Verde (Republic of)
0319 Cayman Islands
0612 Central African Republic
0670 Chad (Republic of)
0725 Chile
0412 China (People's Republic of)
0516 Christmas Island (Indian Ocean)
0523 Cocos (Keeling) Islands
0730 Colombia (Republic of)

0616 Comoros (Union of the)
0615 Congo (Republic of the)
0518 Cook Islands
0321 Costa Rica
0619 Côte d'Ivoire (Republic of)
0238 Croatia (Republic of)
0618 Crozet Archipelago
0323 Cuba
0210 Cyprus (Republic of)
0270 Czech Republic
0445 Democratic People's Republic of Korea
0676 Democratic Republic of the Congo
0219 Denmark
0621 Djibouti (Republic of)
0325 Dominica (Commonwealth of)
0327 Dominican Republic
0735 Ecuador
0622 Egypt (Arab Republic of)
0359 El Salvador (Republic of)
0631 Equatorial Guinea (Republic of)
0625 Eritrea
0276 Estonia (Republic of)
0624 Ethiopia (Federal Democratic Republic of)
0740 Falkland Islands (Malvinas)
0231 Faroe Islands
0520 Fiji (Republic of)
0230 Finland
0227 France
0546 French Polynesia
0626 Gabonese Republic
0629 Gambia (Republic of the)
0213 Georgia
0218 Germany (Federal Republic of)
0627 Ghana
0236 Gibraltar
0237 Greece
0331 Greenland
0330 Grenada
0329 Guadeloupe (French Department of)
0332 Guatemala (Republic of)
0745 Guiana (French Department of)
0632 Guinea (Republic of)
0630 Guinea-Bissau (Republic of)
0750 Guyana
0336 Haiti (Republic of)
0334 Honduras (Republic of)
0477 Hong Kong (Special Administrative Region of China)
0243 Hungary (Republic of)
0251 Iceland
0419 India (Republic of)
0525 Indonesia (Republic of)
0422 Iran (Islamic Republic of)
0425 Iraq (Republic of)
0250 Ireland
0428 Israel (State of)
0247 Italy
0339 Jamaica
0431 Japan
0438 Jordan (Hashemite Kingdom of)
0436 Kazakhstan (Republic of)
0634 Kenya (Republic of)
0635 Kerguelen Islands
0529 Kiribati (Republic of)
0440 Korea (Republic of)
0447 Kuwait (State of)

0451 Kyrgyz Republic
0531 Lao People's Democratic Republic
0275 Latvia (Republic of)
0450 Lebanon
0644 Lesotho (Kingdom of)
0636 Liberia (Republic of)
0252 Liechtenstein (Principality of)
0277 Lithuania (Republic of)
0253 Luxembourg
0453 Macao (Special Administrative Region of China)
0647 Madagascar (Republic of)
0255 Madeira
0655 Malawi
0533 Malaysia
0455 Maldives (Republic of)
0649 Mali (Republic of)
0248 Malta
0538 Marshall Islands (Republic of the)
0347 Martinique (French Department of)
0654 Mauritania (Islamic Republic of)
0645 Mauritius (Republic of)
0345 Mexico
0510 Micronesia (Federated States of)
0214 Moldova (Republic of)
0254 Monaco (Principality of)
0457 Mongolia
0348 Montserrat
0242 Morocco (Kingdom of)
0650 Mozambique (Republic of)
0506 Myanmar (Union of)
0659 Namibia (Republic of)
0544 Nauru (Republic of)
0459 Nepal
0245 Netherlands (Kingdom of the)
0306 Netherlands Antilles
0540 New Caledonia
0512 New Zealand
0350 Nicaragua
0656 Niger (Republic of the)
0657 Nigeria (Federal Republic of)
0542 Niue
0536 Northern Mariana Islands (Commonwealth of the)
0258 Norway
0461 Oman (Sultanate of)
0463 Pakistan (Islamic Republic of)
0511 Palau (Republic of)
0443 Palestinian Authority (based on Resolution 99 of PP-98)
0351 Panama (Republic of)
0553 Papua New Guinea
0755 Paraguay (Republic of)
0760 Peru
0548 Philippines (Republic of the)
0555 Pitcairn Island
0261 Poland (Republic of)
0263 Portugal
0358 Puerto Rico
0466 Qatar (State of)
0660 Reunion (French Department of)
0264 Romania
0273 Russian Federation
0661 Rwanda (Republic of)
0665 Saint Helena
0341 Saint Kitts and Nevis
0343 Saint Lucia

0607 Saint Paul and Amsterdam Islands

0361 Saint Pierre and Miquelon (Territorial Collectivity of)

0376 Saint Vincent and the Grenadines

0561 Samoa (Independent State of)

0268 San Marino (Republic of)

0668 Sao Tome and Principe (Democratic Republic of)

0403 Saudi Arabia (Kingdom of)

0663 Senegal (Republic of)

0279 Serbia and Montenegro

0664 Seychelles (Republic of)

0667 Sierra Leone

0563 Singapore (Republic of)

0267 Slovak Republic

0278 Slovenia (Republic of)

0642 Socialist People's Libyan Arab Jamahiriya

0557 Solomon Islands

0666 Somali Democratic Republic

0601 South Africa (Republic of)

0224 Spain

0417 Sri Lanka (Democratic Socialist Republic of)

0662 Sudan (Republic of the)

0765 Suriname (Republic of)

0669 Swaziland (Kingdom of)

0265 Sweden

0269 Switzerland (Confederation of)

0468 Syrian Arab Republic

0416 Taiwan (Province of China)

0674 Tanzania (United Republic of)

0567 Thailand

0274 The Former Yugoslav Republic of Macedonia

0671 Togolese Republic

0570 Tonga (Kingdom of)

0362 Trinidad and Tobago

0672 Tunisia

0271 Turkey

0434 Turkmenistan

0364 Turks and Caicos Islands

0572 Tuvalu

0675 Uganda (Republic of)

0272 Ukraine

0470 United Arab Emirates

0232 United Kingdom of Great Britain and Northern Ireland

0366 United States of America

0379 United States Virgin Islands

0770 Uruguay (Eastern Republic of)

0437 Uzbekistan (Republic of)

0576 Vanuatu (Republic of)

0208 Vatican City State

0775 Venezuela (Bolivarian Republic of)

0574 Viet Nam (Socialist Republic of)

0578 Wallis and Futuna Islands

0473 Yemen (Republic of)

0678 Zambia (Republic of)

0679 Zimbabwe (Republic of)